

Westinghouse Electric & Manufacturing Company,

PITTSBURGH, PA., U. S. A., June 22^d 1891

Mr. Nicola Tesla,

My dear Sir:



Enclosed I send you a clipping
of the Pittsburgh Dispatch, which will
undoubtedly prove of interest to you. When
you peruse the article you will find that
I am right, when I stated in the
past, years ago that you were
a hemispherical representation
of the greatest electrical inventors
of our age.

Yours Truly,

Georg H. Thimmrich

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

Jan. 27th, 1893.

Mr N. Tesla,

The Gerlach,


27th St., New York.

Dear Mr Tesla:-

Your valued favor of the 23rd is received. I will
get a copy of the "London Electrical Review" of Jan. 13th, 1893, and
give the matter proper attention as you suggest.

Thanking you, I remain,

Yours Truly,


Samuel B. Smith
Vice Pres. & Gen. Manager.

Westinghouse Electric & Manufacturing Company,

120 BROADWAY,

NEW YORK, N. Y.,

April 17th 1892



Mr. Charles L. ...

Paul ...

Newark N.J.

Dear Sir:

Since talking with you
last week Mr. ... has explained
to me that he wants to have
some work done at the ...
factory in order to expedite
matters in getting his apparatus
ready for Chicago. He will
want the time of one or two
of your men and perhaps
some other work. Please have
his work done and arrange
so that it will not interfere
with regular output & oblige

Yours truly,
Samuel ...

The ... Mr. ... work to ...
Office

possible care will be taken in packing, but we will not be responsible for breakage.
 claims for shortages or defective material considered, unless made within ten days after receipt of goods.

No. _____

Pittsburgh, Pa. April 30th 1893

N. Tesla Esq
 New York

W. E. & M. Co's Order No. _____

Purchaser's Order No. _____



Bought of Westinghouse Electric & Manufacturing Company.

Terms _____

1892						
Feb 9	1-	Tesla Motor as per specification furnished	exper	200 00	200 00	
Dec. 12	1-	24 Pole A. C. Motor Armature	exper	25 00	25 00	
Jan 5	3-	Rings of Sheet Iron + Tesla		5 00	5 00	
Mar 3	2-	Laminated Magnets N. T.		70 00	70 00	
" 18	2-	112 H.P Tesla Motor	Tesla E. Co	75 ⁰⁰ 150 00		
	2-	"	" Tesla E. Co	107 00		
	1-	" 0 W. C. Exciter	Experim	125 00	382 00	
" 21	1-	E 500 Volt Motor				
	1-	Pulley				
	1-	Bare				
		N. T.		168 00		
		Less 30%		50 40		
				117 60		
		Less 10%		11 76	105 84	
					787 84	

Westinghouse Electric & Manufacturing Company,
Pittsburg, Pa.

Room 27, Westinghouse Bldg.,

March 13th, 1895.

Mr. Nikola Tesla,

Hotel Gerloch,

New York, N. Y.

My Dear Sir:--

Noticing by to-day's papers that you had a serious loss
by the fire in your factory on South Fifth Avenue, I hasten to offer
you my sincere regret, and I trust that you were well insured and will
be able to very soon find another suitable location to carry on your
work.

Yours very truly,

George H. Stein



89

The Gorlach,

New York City, March 22nd, 1895.



Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:-

You have, no doubt, learned through the papers of the unfortunate accident which has deprived me of all my apparatus, and of some results of my recent work. I must now rebuild my laboratory, and will require some machinery. I shall write a letter to the Westinghouse Company about this matter consulting Mr. Adams. You will greatly oblige me if you will do what is in your power to ship what is required with the least possible delay.

Thanking you in advance, I am

Sincerely yours,

Handwritten calculations and notes on the right margin:

110/133
135/140/153
157/162/168
157/184
232/238
247/283/318
33/349/352
358/363/371/377
387/398/409
428-29/434/437/440
445-48-64-65-66-70
485-497

The Gerlach,

New York City, March 27th, 1895.

Mr. Albert Schmid,

Pittsburgh, Pa.

My dear Mr. Schmid:-

You will remember that some time ago I wrote to you that I was going to want some of your best annealed converter iron strips. I have now decided as to the size. They are to be two and five-eighths (2 5/8) inches wide and eleven and five-eighths (11 5/8) inches long. As to thickness, I want the same as on your converters found most practicable, considering performance and cost, etc.

I assume that these strips will be readily obtained without much delay, and as they will be punched they will be of uniform size.

You will add to my many obligations if you will kindly see that these strips are of the best quality of iron (or steel) and annealed most carefully, and shipped with the least possible delay to my address above. I want enough of these strips to make up a weight of one thousand (1000) pounds.

Kindly let me know upon receipt of this letter when I may expect these strips. As the time is pressing, I would beg you to forward them by express at my expense.

Hoping that you will oblige me by attending to this matter at once, I am sincerely yours,



89
133/135/148/153
157/162/168/184/232/238
247/283/318/356/387
358/363/371/379/410
398/409/415/419/440
428-242-372-40-300
448-64-65-66-300
485/497

133,

The Gerlach,

New York City, March 30th, 1891

Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:-

I have to thank you for your kind letter
of March 27th. I may be able to come out and have a talk with
Mr. Bannister.

The other day I wrote to you about some strips of annealed
converter steel, and I am still anxiously awaiting your reply.
Hoping that you have ordered the material, and that I shall get
it without much delay, I am

Sincerely yours,

89
110
135
184/232-38-47-83/318-36-44-52-59
363-71-77-87-98/409-15-19-20
428-29-34-37-40-45-48-64-65
466-70-85-97



89
110
133
140
The Gerlach

135
New York City, March 30th, 1895.

Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:-

Oblige me and let me know, immediately upon receipt of this, what is the smallest size rotating 2-phase transformer you have in stock. I would like to have about 25 cycles a second, as adopted at Niagara. The commutator should be one possessing a great number of bars, so that I can get a continuous current which I want for some purposes in the laboratory. I would prefer such a machine to one which has got only few commutator segments, and in which the current is necessarily undulating.

I propose to use a machine of the above description and capacity about 25 H.P. or so, for driving motors, and what little machinery I want in the electrical department of my shop. I have provided steam-power for my work-shop.

You will add to my obligations if you will let me know what motors I could get to go together with that machine.

The tension should be from 125 volt upward to no more than 220 volt. I may use a machine of say 110-volt if one should be in stock. Furthermore I am not limited exactly as to the capacity, and it might be something more than 25 H.P., but not very much more.

Hoping to receive from you an early and favorable reply, and thanking you in advance, I am

Cincerely yours,

MUSEE
NIKOLE TESLA

140,

89

The Corlacks

110

April 1st, 1895.

133

135

232-38-47-83-57-62-68-84-
363-71-77-87-48-408-15-19-20-28-29
434-57-40-45-48-64-65-66-70-85-97



Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:-

Your letter of March 28th received.

I am much obliged for your kindness in attending to the matter at once, and would only remind you not to send the strips by freight, but by express at my expense, and please also advise me by dispatch of the shipment.

Yours sincerely,

153
The Gerlach,

New York City, April 3rd, 1903

Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:-

Many thanks for your kind letter.

I have made up my mind to purchase a machine of the kind you refer to. I have written a letter to Mr. Bannister, and would beg you please confer with him without delay. I can assure you that I shall be grateful for your help. The machine should be wound for 220 volts and should give 3200 alternations per minute, and I shall buy later on motors also wound for 220 volts. About these motors I shall write later on, as I infer that there would be not much delay in getting them. The capacity of the machine π should be about 30 H.P., but may be 25 if you like, and it is very important for me to get it as soon as possible, as much of my work is being delayed. As I intend to use this machine for certain specific purposes in connection with my oscillators, a high efficiency figure is an important item. Please, therefore, do not spare any pains or expense to secure the best result. I shall rely, as to the price, entirely on the fairness of the Westinghouse Company. I believe that there are gentlemen in that company who believe in a hereafter.

You mention in your letter that it would want six weeks to furnish the machine. Should you find any way of shortening this by selection of patterns existing I would be much obliged to you for doing it. But I would want, as I stated before, the best workmanship, and the best results which are within the reach of your ability and experience.

Kindly advise me whether this is understood, and whether you are going on with the work.

With kind regards, I am

Sincerely yours,

157.

The Gerlach,

New York City, April 4th, 1898.

89-110-33-40
153
162
318-36-49-52-58-63-71-77-87-98-409.
415-19-20-28-29-34-37-40-45-48-64-65-66-70
485-97
MUZEJ
NIKOLE TESLE

Mr. Albert Schmid,

Pittsburgh, Pa.

My dear Mr. Schmid:-

I have just received your dispatch
advising me of the shipment of 412 pounds iron strips, as ordered.
Please accept my best thanks for your kindness in attending to
this small affair.

Sincerely yours,

The Gerlach,

New York City, April 6th, 1885.

Mr. Albert Schmid,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Your dispatch of yesterday, relating to the high-tension converters, received. I shall write you about the matter Monday, as I have to suggest some little improvements on the converters you have made before. These, however, will not involve any loss of time.

Thanking you for your attention in replying, I am

Sincerely yours,



Westinghouse Electric & Manufacturing Company,

120 BROADWAY,

NEW YORK, N. Y., April 8th, 1895.

Nikola Tesla, Esq.,

The Gerlach,

New York City.

Dear Mr. Tesla:

I am in receipt to-day of your letter of the 3rd inst. and have instructed Pittsburgh to prepare and ship the rotating two-phase transformer described by Mr. Schmid. The order will receive our best attention, and when I get the data it will give me pleasure to make the price as low as we possibly can.

I have regretted every time I have thought of your misfortune that you should have met with such a loss. I am very glad to know that you took off your coat and went to work again to get everything back into shape as soon as possible.

I expect to be in New York several days and shall hope to have the pleasure of seeing you.

Yours truly,

Samuel B. Parsons
Vice President & General Manager.



The Gerlach,

New York, April 9th, 1908.

Mr. Albert Schmid,
Pittsburgh, Pa.

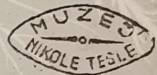
My dear Mr. Schmid:-

Your dispatch, advising me of the shipment of the balance of the strips, received. I have also received a letter from Mr. Barnister, in which he informs me that the order for the rotary transformer is put through the shop. You will greatly oblige me if you will push the work on that transformer, and make it excellent in every way, as it is likely that I shall exhibit it in connection with my oscillators.

Mr. Stillwell told me the other day that you have shipped to my address the two rotating-field rings which were exhibited at the World's Fair. I am very anxious to get them, but as I have, as yet, not received anything, I am afraid that they are somewhere at the railroad station. Kindly look into the matter and trace them.

Thanking you again, I am

Sincerely yours,



176.
46, E. Houston St.,

New York City, April 12th, 1895.

Westinghouse Electric Co.,
Pittsburgh, Pa.

0
183-202-221
282-303, 223



Gentlemen:-

The iron strips which you have forwarded have been received. I thank you for your prompt delivery, and would beg you to forward the bill soon.

Very truly yours,

172.
46, E. Houston St.,

New York City, April 12th, 1895.

Mr. W. C. Clark,

Pittsburgh, Pa.

My dear Sir:-

Your favor of April 10th is received.

I thank you very much for your kindness in writing me, and
attending to the matter.

Very truly yours,

N. Tesla



183

MS 481
Andersen, Leonard -
And Nikola Tesla Co. (Biel 7227) Nikola Tesla
Folder 19

New York City,

46, E. Houston St., April 13th, 1895.

Westinghouse Electric Co.,
Pittsburgh, Pa.

171
200 ✓ 221-282
303, 223



Gentlemen:-

Please forward, with the least possible delay,
three small, direct-current motors, viz., one H.P., one-half H.P.
and one-quarter H.P. All the three motors must be wound for a
220 volt circuit.

Hoping that you will favor me with an early shipment of this
apparatus, I am

Very truly yours,

46, E. Houston St.,

New York City, April 13th, 1895.

Mr. Albert Schmid,

Pittsburgh, Pa.

My dear Mr. Schmid:-

I have just written to the Westinghouse Company about three small direct-current motors, viz., one H.P., one-half H.P. and one-quarter H.P., all to be wound for 220 volts.

Please oblige me and let me have these at once, as I need them temporarily in the shop, where I have at present only the direct current from the central station.

Sincerely yours,



184.
MS 481
AND MANUFACTURING CO. (Pat 7227) Nikola Tesla
Folder 19

242
New York City,

46, E. Houston St., April 16th, 1895.

Westinghouse Electric Co.,

Pittsburgh, Pa.

Gentlemen:-

I beg to acknowledge the receipt of your favor of April 15th, and wish to thank you for your prompt reply.

As you have no smaller motors, I shall have to get along with what you can furnish. Please forward, as soon as possible, one one H.P. motor, 1900 revolutions, wound for 220 volt circuit, and one 3/4 H.P. motor for the same circuit and 1300 revolutions per minute.

I imply that the latter motor is really a one H.P. motor in disguise, and I expect that these two motors will be sufficient for my present purposes.

Kindly oblige me by a speedy delivery.

Thanking you in advance, I am

Very truly yours,



46, E. Houston St.,

New York City, April 20th, 1895.

Westinghouse Electric Co.,
Pittsburgh, Pa.

171-183
902
282
303
223



Gentlemen:-

I beg to acknowledge the receipt of the two rotating-field rings which were exhibited at the World's Fair. Please accept my best thanks for your kindness in giving me this apparatus, to which I attach now a special value, since most of the objects which were dear to me have been destroyed.

Very truly yours,

Ms 481

Ms 481
Museum of the City of New York
Gift of the City of New York
April 22, 1895
Alfred P. Tesla

46, E. Houston St.,
New York City, April 23rd, 1895.

Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:-

Some time ago you will remember I wrote you about some high-tension converters which I needed in the pursuance of my investigations, since the old ones have been destroyed.

Upon receiving the high-tension converters from the World's Fair, I found that one of them was injured. I was then obliged to take it out and repair it, and on that occasion I noted certain defects which I have tried to remedy in the design which I have mailed to you this day.

I have no doubt that the drawing will be clear enough for you to save all description. I would only remark that in making up the secondary spools I have assumed that you will use fiber washers riveted together by small brass rivets. These washers I suppose you can make up of small pieces, so that they would not involve the cutting up of large fiber sheets, but I do not want you to spare a few dollars on my account. In the center of the iron core I have found it indispensable to put a brass bolt as indicated in the drawing, and furthermore to place iron strips in front of the ends of the core. These strips I need for several reasons.

I would beg you to instruct Mr. Kaiser to wind these secondaries most carefully and try to place exactly 100 turns of wire #26 on each layer. On the ends of each layer wind string of slightly larger diameter than the insulated wire, so that there will be a tendency for the paper that is placed between the layers to bulge up on the ends. This paper I calculated to be very nearly $1/64$ inch thick.

The ends of the secondary ought to finish as indicated in a and b. Of course I count that you will put fewer turns on the last layer, and then wind thick and stranded wire on the top to protect the finer wire.

Each half of the primary will have four ends, as the winding is made by two wires insulated from each other. There should be, then, eight binding-posts for the primary.

Please oblige me by a reply whether everything is understood, and begin the work without delay.

I shall be very much obliged for your personal attention, and for any services that you may render me in this connection.

Very sincerely yours,

46, E. Houston St.,

New York City, April 22th 1895.

Mr. Albert Schmid,
Pittsburgh, Pa.

My dear Mr. Schmid:

In writing you yesterday about the high-tension converter, I forgot to mention that I would prefer to place the iron tank, which should be very strong, on a small truck fitted for that purpose, so that it can be readily moved.

You need not cover the iron tank with the boards, as you did on the old apparatus, as this simply increases the weight and cost.

Inside I have shown the wood, which, of course, should be the driest pattern wood, filling as much space around the coil as possible, so as to reduce the amount of oil to the minimum. Besides saving the oil there is an advantage of the coil being lighter and safer. Please therefore, instruct the carpenter to cut off the pieces so as to fit everywhere around the coils to a distance of about $\frac{3}{4}$ of an inch, which I consider minimum. You may also place a board between the two secondary spools at a distance of $\frac{3}{4}$ of an inch from each.

Please remember, also, that when winding the secondary I would under no circumstances use shellac or any other varnish, but some light oil; as paraffine oil, which will be brushed over each layer when it is finished. Do not use linseed oil, as the coil might get hot during the winding.

You will greatly oblige me if you will send me a dispatch upon receipt of this, that you have my sketch, and that you are proceeding with the work.

Hoping to hear from you shortly, also, in regard to the rotating transformer which I have ordered, favorable news, I am

Sincerely yours,



MS 481

AND MANUFACTURED IN U.S.A. (Buel 7227) Nikola Tesla

folded 19

MS 481

241

46, E. Houston St.,

New York City, April 25th, 1895.

Mr. C. F. Scott,

Pittsburgh, Pa.

285
300-15
MOZES
WOLE TESLE

My dear Mr. Scott:-

I have written to the Westinghouse Company about a high-tension converter of a somewhat modified design, which is intended to replace the old converters constructed for the World's Fair.

Although I know that Mr. Schmid will do for me as much as he can, yet fearing that he may be too busy, or away from the factory, I write this to ask you if you would not kindly devote a little attention to this small matter. I shall be very much obliged to you if you will see that I get at least one of the two converters very soon. I hope also that you may be able to advance the construction of the rotating transformer which I have ordered some time ago. My work has been suddenly interrupted just as I was at the most interesting stage of the development of certain ideas, and I need very much my apparatus to begin work anew.

Thanking you in advance for any service in this connection,

I am

Sincerely yours,

31

AND MANUFACTURING CO. (Biel 7227) Nikola Tesla
Folder 19

Ms 481

247.

46, E. Houston St.,

New York City, April 26th, 1895.

89/110-133-38-52 57-62-68-84/232

238

283

377-87-98/409-15-19-20-28-29

445-45-64-65-66-70-85-97

32-58-63-71

34-37-40

Mr. Albert Schmid,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Your dispatch of yesterday received.

Please accept my thanks for the prompt action. I hope that the construction of the rotating transformer is favorably progressing.

Yours sincerely,



46, E. Houston St.,

New York City, May 3rd, 1895.

Westinghouse Electric Co.,

Pittsburgh, Pa.

Gentlemen:-

I wish to acknowledge the receipt of goods as per statement forwarded to me together with your favor of April 30th. Viz., One 1 H.P. Shunt Wound, 220 Volt Motor; One 3/4 H.P. Shunt Wound Motor, with belt tightener slides, Two Rheostats and a pulley.

The blue-prints showing the diagrams of connections have also been received under separate cover.

Thanking you for the speedy delivery, I am,

Very truly yours,



46, E. Houston St.,

New York City, May 3rd, 1895

Mr. Albert Schmid,

Pittsburgh, Pa.

My dear Mr. Schmid:-

I would be much obliged if you will kindly let me know how the work on the rotating transformer is progressing, and when you expect to be able to ship it.

Very sincerely yours,



46, E. Houston St.,

New York City, May 4th, 1895.

Mr. C. E. Scott,

Pittsburgh, Pa.

My dear Mr. Scott:-

Thanks for your letter of May 3rd, which
I have just received.

I hardly need to assure you again, on this occasion, that I
shall be much obliged for any trouble you take in advancing the
work on my apparatus.

I am particularly anxious about the rotating transformer, as
I have not heard anything since some time in regard to it.

Yours very truly,



300

46, E. Houston St.,

New York City, May 9th, 1895.

241
285
315
54

Mr. C. F. Scott,

Pittsburgh, Pa.



Dear Mr. Scott:-

Thanks for the favorable report in regard to the rotating transformer. I would not bother you with this matter knowing that you are doing all in your power to advance the work, were it not that I am so very anxious to begin anew my interrupted experiments. This kind of work is almost essential to my health, and I hope that its resumption will have a good effect upon me.

Sincerely yours,

46, E. Houston St.,

New York City, May 9th, 1895.

Westinghouse Electric Company,

Pittsburgh, Pa.,

Mr. Albert Schmid, Supt.

282
171-183-202-221
223



Dear Mr. Schmid:-

When I ordered the 30 H.P. rotating transformer, I implied that a starting-box will go with it.

I have, not, in my laboratory, the direct current from the city mains, and will require a box to start the transformer. You may have a box ready, and if not kindly have one made for the purpose, and shipped with the transformer or before.

Very truly yours,

46, E. Houston St.,

New York City, May 14th, 1895.

Mr. C. F. Scott, Electrician,
Westinghouse Electric Co.,
Pittsburgh, Pa.



Dear Sir:-

Your favor of May 11th just received. I know that you have an extended experience in kindred matters, and that you will employ the best method of bringing out the terminals. I would only suggest, because of the convenience I would have, that you put on the top substantial binding-posts for the primary as well as for the secondary wire, so as to enable me to attach, even to the latter a heavy wire. The rubber columns, on the top of which the secondary binding-posts are to be placed, should be removable, so that they would not interfere with the boxing in case of shipment. The best way, it seems to me, would be to connect the secondary wire as deep in the tank as possible to two metal blocks, in to which metal rods covered with hard rubber would be screwed.

I have further to suggest that the tank be placed on a small truck with rollers, and there should be on each side ordinary iron handles for eventually lifting the whole.

Hoping that I shall get the coil soon, and thanking you for your attention and trouble taken in the matter, I am

Very truly yours,

315.

318.

52-38

241-85
300
54~

563-
9-34
85-4

38

318.

46, E. Houston St.,
New York City, May 14th, 1895.

Mr. Albert Schmid, Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

89/110-33-35-40-53-62-68-84-232-35-47
283
336-49-52-58-63-71
37-87-98/409-15-19-20-28-29-34
437-40-45-48-64-65-66-70-85-97



My dear Mr. Schmid:-

This will introduce to you, Mr. Johann Jordan, from Vienne, who desires to exploit here some improved carbons of his own manufacture, and look up other business, with the view of importing to Europe some American machinery or articles.

Any courtesy and service you may be able to render to Mr. Jordan will be appreciated by me.

Sincerely yours,

39

3257

46, E. Houston St.,

New York City, May 15th, 1895.

172

Mr. W. C. Clark, Assist.Gen.Manager,
Westinghouse Electric Co.,
Pittsburgh, Pa.



Dear Sir:-

From your favor of May 14th, just received, I infer that Mr. Bannister is absent, and I take liberty to write to you, and say that, in my opinion, Captain de Khotinsky would be a very valuable addition to your staff, especially if the Westinghouse Company are engaged in any accumulator or electrolytic work, as he has extended experience in that direction.

Very truly yours,

N. Tesla

327.

46, E. Houston St.,

New York City, May 16th, 1895.

0

Mr. W. J. Longmore,

Westinghouse Electric Co.,

New York City.



My dear Sir:-

This will introduce to you, Mr. Francis Jehl, whom I have known for many years. I have a high opinion of Mr. Jehl's integrity in his business dealings, and am convinced that whatever you arrange with him, you will have no cause to regret it.

Very truly yours,

46, E. Houston St.,

New York City, May 17th, 1895.

Mr. Albert Schmid, Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

I have received your favor of before yesterday, and would beg you, in constructing the rheostat, to allow plenty of wire capacity, as I would like to get a resistance box which not only would be convenient for starting the rotating transformer, but could be used also for other purposes, and in such emergencies I would like to have as wide a range as possible.

Hoping that you will soon be able to ship the machine and apparatus ordered, I am

Sincerely yours,

336.

318

349



333,

16, E. Houston St.,

New York City, May 18th, 1895.

Mr. C. A. Bragg,

Westinghouse Electric Co.,

Philadelphia, Pa.



My dear Bragg:-

Your letter with inclosure received. I have now a greater faith than ever in your honesty, for the inclosures consisted of Government Bonds.

I am located at above address, and will be pleased to see you any time.

Very truly yours,

New York City, May 21st, 1895.

Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear Mr. Schmidt:-

Your dispatch just received. I am much obliged for your kindness, and hope that there will be no unforeseen delay in the shipment.

Yours sincerely,

349

336

0-53-57-62-68-84-12-38-47-83-315-
City, May 21st, 1895.
336
58-63
337-28-29
377-87-98/409-65-11-20-28-29
437-40-45-48-64-65-66
485-1025
SOLE TESLE

5-48
A95
FOZES
SOLETESLE

44

352

46, E. Houston St.,

New York City, May 22nd, 1895.

89/110-33-35-40-53-57-62-65-68-73-77-81-84-87-89-92-95-98-100-103-106-109-112-115-118-121-124-127-130-133-136-139-142-145-148-151-154-157-160-163-166-169-172-175-178-181-184-187-190-193-196-199-202-205-208-211-214-217-220-223-226-229-232-235-238-241-244-247-250-253-256-259-262-265-268-271-274-277-280-283-286-289-292-295-298-301-304-307-310-313-316-319-322-325-328-331-334-337-340-343-346-349-352-355-358-361-364-367-370-373-376-379-382-385-388-391-394-397-400-403-406-409-412-415-418-421-424-427-430-433-436-439-442-445-448-451-454-457-460-463-466-469-472-475-478-481-484-487-490-493-496-499-502-505-508-511-514-517-520-523-526-529-532-535-538-541-544-547-550-553-556-559-562-565-568-571-574-577-580-583-586-589-592-595-598-601-604-607-610-613-616-619-622-625-628-631-634-637-640-643-646-649-652-655-658-661-664-667-670-673-676-679-682-685-688-691-694-697-700-703-706-709-712-715-718-721-724-727-730-733-736-739-742-745-748-751-754-757-760-763-766-769-772-775-778-781-784-787-790-793-796-799-802-805-808-811-814-817-820-823-826-829-832-835-838-841-844-847-850-853-856-859-862-865-868-871-874-877-880-883-886-889-892-895-898-901-904-907-910-913-916-919-922-925-928-931-934-937-940-943-946-949-952-955-958-961-964-967-970-973-976-979-982-985-988-991-994-997-1000

Mr. Albert Schmid,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Please mail, as soon as possible, upon receipt of this letter, the blue-prints of the rotating-field transformer, as I want the dimensions of the base.

Oblige me by an answer without delay.

Sincerely yours,



46, E. Houston St.,

New York City, May 28th, 1896.

Mr. Albert Schmid, Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Thanks for blue-print of the foundation
for my rotating transformer which I have just received together
with your letter of May 24th.

I hope that you will be able to ship the machine, as promised
in your last letter. I also anticipate the shipment of the high-
tension transformer very shortly.

With thanks for your kindness, I am

Sincerely yours,



46, E. Houston St.,

New York City, May 29th, 1895.

Mr. Albert Schmid, Supt.,

Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear Mr. Schmid:-

This will introduce to you Mr. J. J. Bellman, who is desirous of securing a position with an electric company. There is no need of my testifying to his qualities, as his certificate from the Columbia College will show. In engaging his services you will make a valuable addition to your staff, and greatly oblige me.

Sincerely yours,

363.

232-38-47-53/5.8
336-349-52-358
371-77-52-98/409-55-47-20
428-29-34-3740
45-48-64-65-66-70-85-97



Anderson, Leland - introduced Ark. ...
And. Minus. Induct. N.Y. Co. (Reel 7227) Nikola Tesla
Tel. No. 19

46, E. Houston St.,

New York City, June 6th, 1913.

Mr. Albert Schmid,

Westinghouse Electric Co.
Pittsburgh, Pa.

My dear Mr. Schmid:-

Your dispatch of yesterday, for which I thank you, has been received. I am a little disappointed to learn that the shipment will not be made before Tuesday next. Knowing that there can be no mistake on any dynamo that you design, I consider the test a superfluous affair, and would suggest that you ship the machine directly. Please also take care that the apparatus is not unduly delayed on the railroad. I do not care for spending a few dollars more, provided I get it quicker.

Sincerely yours,



46, E. Houston St.,

New York City, June 10th, 1895.

Mr. Albert Schmid, Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Your dispatch of Saturday has reached me late in the afternoon. I thank you very much for the prompt attention to my letter, and hope that the machine has turned out entirely to your satisfaction, which means to say that it cannot be further improved.

You will add to my obligations if you will inform me when you expect to ship my high-tension coil. It must be very well under way, judging from a letter which Mr. Scott wrote to me some time ago. I hope also that you will be able to ship the starting-box together with the rotating-transformer.

Hoping to have soon the pleasure of seeing you, I am

Sincerely yours,



46, E. Houston St.,

New York City, June 13th, 1895.

Mr. Albert Schmid, Supt.,

Westinghouse Electric

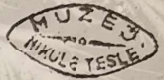
Pittsburgh, Pa.

My dear Mr. Schmid:-

Your letter of June 12th has just reached me. I am very glad to learn that the generator has been shipped, and that I have now the prospect of soon continuing the line of experiment which was interrupted a few months ago. Kindly oblige me by forwarding the box as soon as ready, because it will be difficult for me to operate the motor without it. I appreciate the use of the German silver wires insuring constant resistance, and will value it the more if the bill turns out to be small. The latter requirement is far more important for me than the constant resistance.

Hoping that the converter will be shipped at the time promised, and thanking you for your help, I am

Very sincerely yours,



46, E. Houston St.,

New York City, June 15th 1895.

Mr. Albert Schmid, Supt. Westinghouse Elec. Co.,
Pittsburgh, Pa.

My dear Mr. Schmid:-

Having not to this day, as yet, received the invoice of the rotating transformer, which you inform me you have shipped Monday last, presumably by freight, I would beg you to ship the regulating box as well as the high tension coil by express. I suppose that the weight of this apparatus will not be such as to make the shipment in this way very expensive.

Thanking you in advance, I am

Sincerely yours,

398.

89-110-33-35
53-57-62-68-84
332-38-47-83/318-36
419-52
1895.

358-63-71-77
387
404
15-19-20-25
48-64-65
429-34-37-40-41-97
466-70
MAILED
HOLE TESTER

46, E. Houston St.

New York City, June 19th, 1895.

Mr. Albert Schmid, GENERAL (Supt.)
Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear General:-

Your dispatch of yesterday, for which I am much obliged, was received, and I have since also received the note of shipment. I am unable to locate, as yet, the transformer; it seems to be still under way. In view of this I would beg you to always ship the goods, or make communications, except of a personal nature, to my laboratory, 46, East Houston Street.

Thanking you in advance, I am

Sincerely yours,



46, E. Houston St.,

New York City, June 20th, 1895.

Mr. Albert Schmid, Gen. Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Your dispatch in regard to the converters has been handed to me this moment, and I have replied immediately by wire, asking you to ship the converters by express, in view of the long delay by freight. I am very disappointed for not having, as yet, obtained news of the rotating transfer, although it is now over ten days since, according to your letter, it was shipped.

With best thanks for your kindness, and anticipating the pleasure of seeing you soon, I am

Very sincerely yours,



46, E. Houston St.,

New York City, June 21st, 1895.

Mr. Albert Schmid, Gen. Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear Mr. Schmid:-

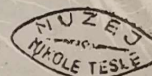
The rotating transformer has been finally received, and I am very pleased by the first inspection of the machine, which shows that you have bestowed upon it more than the usual care.

I shall be much obliged to you if you will kindly send me of the machine, blue-prints, and such particulars as you can give without departing from the usual practice of your company in kindred matters.

I would like, of course, to know everything pertaining to the winding and the constants of the iron, so as to be able to profit by the experiments with this machine as much as possible.

Hoping that the high tension apparatus will be received in good shape, I am

Yours very sincerely,



46, E. Houston St.

New York City, June 22nd, 1895.

Mr. Albert Schmid, Gen. Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

I have run the motor yesterday, and was very much pleased to note the great improvements you have made in these machines over those of two or three years ago. I have no doubt that it is a highly efficient machine, judging from the quickness with which the speed regulation is effected. My idea was that you would ship a pulley together with the motor, as you do with generators. The most suitable size for me would be between 16 and 20 inches. I would like you would send on one which is very well balanced, of that size, or slightly larger.

Hoping to hear from you with return mail, I am

Sincerely yours,



420,

46, E. Houston St.,

New York City, 1008 21st, 1895.

Mr. Albert Schmid, Gen. Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear Mr. Schmid:-

I note from your letter of a few days ago that you have shipped the field regulating-box of the rotating transformer. As I have not yet received it, I would beg you to see whether it has been shipped with the transformer.

I am hopeful that you will be able to ship the starting-box very soon.

Yours sincerely,



46, E. Houston St.

New York City, June 24th, 1895.

Mr. Albert Schmid, Gen. Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear Mr. Schmid:-

Will you kindly forward, as speedily as possible, rings of sheet iron, 9-1/2 inches inside, and 11 inches outside diameter? The thickness of the sheet iron should be between 1/64 and 1/32 of an inch, or whatever thickness you use in your armatures. The iron should be of the highest quality and best annealed, and I shall want about 100 pounds of these plates.

Hoping that you will be good enough to personally order this material, I am

Yours sincerely,



June 25 to Dec. 31-1895 434.

46, E. Houston St.

New York City, June 25th, 1895.

Mr. Albert Schmid, Gen. Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

I have just received the high tension converters, and would say that they are a considerable improvement over the old ones. I hope that you have yourself derived from the construction of these transformers useful experience.

Hoping that they will turn out as I expected, and thanking you for the trouble you have taken in attending to the matter, I am

Sincerely yours,



46, E. Houston St.,

New York City, June 26th, 1895.

Mr. Albert Schmid, Genl. Mgr.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

My dear Mr. Schmid:-

In examining the high tension converters which I have received yesterday, I find that a few mistakes have been made, which I will point out for no other reason beyond the desire to be useful to you.

I find that instead of the laminated iron as required in my first communication to you, there have been put flat bars of ordinary iron on the ends of the core. Furthermore there were no holes on the bottom nor on the sides provided for the oil to circulate. The middle connection of the two secondary coils should have been insulated by a rubber bushing or otherwise to prevent a break through, when by unevenly loading the terminals the coil becomes unbalanced. Another defect was that the coil was placed too low, but this I have easily remedied by placing a few boards underneath. Another oversight was made in tacking the ends of the high tension wire to the frame-work, because you know that no matter how dry the wood is, it will conduct such a current of high tension and short-circuit the coil. The screws which fastened the ends of the secondaries to the terminal wires passing through the rubber columns should have been placed sideways, as they can easily fall out and disconnect, the way they are made. The primary wire should have been sunk into the wood, as required in my sketch, this being necessary so as to enable the inserting of the laminated iron plates opposite to the ends of the core.

Otherwise the coil seems to be made up excellently, and the parts well fastened in the frame. I consider the arrangement of the central wood plate with the blocks on the sides to keep the secondary coils in position, a very good one.

You will oblige me in forwarding the exact particulars which relate to these coils, and I shall let you know immediately after testing them, how far they meet the requirements.

Hoping that you will not take these remarks as an adverse criticism, and thanking you again for your kindness, I am

Sincerely yours,

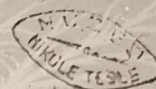
440.

46, E. Houston St.,

New York City, June 29th, 1895.

Mr. Albert Schmid, Gen. Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

437
445



My dear Mr. Schmid:-

Your letter of June 28th has been received, and I thank you for the information contained therein.

In examining further the coils, I found that a more serious defect was present, which, however, it was easy to remedy. If I mention this you will, of course, know that it is done with the most friendly motives.

I found that on the secondary ends which were connected in the middle above the primary, there were brass plates fastened one inch and a half long and about $1/4$ inch wide. These brass plates should have been placed tangentially to the coil. Instead of this they were placed radially and over $1/4$ inch beyond the first secondary layer. As the whole secondary wire takes up 5 inches the brass pieces were thus made to span from 60 to 70 layers, and this defect was still further increased by the screws protruding a good depth into the fiber. In case of a superimposed vibration in the secondary, there might be easily 100,000 volts between the layers spanned by the brass plate, and the coil would surely break down. The fact is that the old coils broke down in this way, and I was particularly thinking of informing you in this regard, but forgot to mention it when I ordered the present coils.

I have placed the laminated iron, and have soldered the ends of the secondary in the middle, doing away with the two brass plates, because they were unnecessary and could only cause trouble.

I was pleased, in examining the coils, that the wood frame was excellently made up, and everything seemed otherwise in perfect shape, and it was quite evident to me that you had taken great care in constructing these coils.

With many thanks, I am

Yours sincerely,

46, E. Houston St.

New York

July 2nd, 1895.

Mr. Albert Schmid, Gen. Supt.,

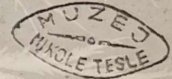
Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

You will perhaps remember that last Fall I took the liberty of recommending to you, through a letter, Mr. Emile Smith. He is a graduate from college, and has had some practical experience in mechanical and electrical engineering. You know that I do not often recommend people, but the good opinion that I have of Mr. Smith prompts me to once more write and ask you whether you might not be able to give him a position at present in some of your factories. If you can do so you will oblige me.

Sincerely yours,



448.

46, ~~St~~ Houston St.,

New York City, July 3rd, 1895.

Mr. Albert Schmid, Gen.Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

445
464



My dear Mr. Schmid:-

I have just received the blue-prints pertaining to the 30 H.P. rotating transformer, and wish to thank you for them. The German silver wire resistance box for starting the transformer has not yet been received, but I presume that it is shipped or if not, that it will be shortly forwarded. I have received the box for the field regulation.

In some of my tests I would like to run the transformer up to about 1200 revolutions per minute; this would be 50% higher than the normal speed. I am convinced that there would be no danger whatever, judging from the general aspect of the machine, but I would beg you to let me know whether you consider such running safe.

Anticipating an early reply, I am

Very sincerely yours,

46, E. Houston St.,

New York City, July 10th, 1898.

Mr. Albert Schmid, Gen. Supt.,

Westinghouse Electric Co.,

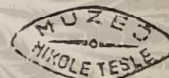
Pittsburgh, Pa.

My dear Mr. Schmid:-

Will you kindly forward to my above address, six dozen large binding-posts which you usually put on your apparatus? I want about the size that you have put on the rotary transformer.

Anticipating an early reply, I am

Yours sincerely,



465
46, E. Houston St.,

New York City

89-110-33-35-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-12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46, E. Houston St.,

New York City,

Mr. Albert Schmid, Gen. Supt.,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Schmid:-

Your favor of July 8th received.

I can only say in favor of Mr. Smith, that his name resembles yours, and to his disadvantage that he resembles me. I hope that the latter will be not a serious objection, and would also beg you to remember that still waters are deep.

Hoping that you will be able to do something for him, I am

Sincerely yours,



465

89-110-33-35-40-53-57-62-68-84
232-38-47-83/318-365 49-52-58
363-71-77-87-98/409-15 1905, 1895.
434-46-45-48-
464
466-70-85-99

Anderson, Leland - Archive and Manuscript Collections - Library of the University of California, Berkeley
7227) Alko & Tesle

466.
46, E. Houston St.,
New York City, July 11th, 1895.

Mr. Albert Schmid, Gen. Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

465
470
MUSEE
NIKOLE TESLA

My dear Mr. Schmid:-

Your favor of July 10th received, from which I learn with pleasure that the starting-box will be shipped this day.

In my letter to you yesterday, I asked you to forward six dozen of your binding-posts, and would here repeat that you will oblige me by sending them on without delay.

In addition to these binding-posts I would like to get some of your single and double switches, because I can get them cheaper from you than from the supply houses here. Kindly forward half a dozen double switches and half a dozen single. The latter ones should be, roughly, for about 50 amperes, and the former for about 100 amperes in each circuit.

For some contrivances which I am driving with the alternating current I require a couple of small alternating motors. The best size for me would be about 1/4 of a H.P. two-phase, and about 1/8 of a H.P. single-phase induction motor, if you have such one on hand. The E.M.F. is immaterial; I presume that you wind them for 100 or 50 volts.

Should these sizes not be on hand, please let me have the nearest to it.

Hoping you will have the kindness to attend to this matter, I am

Yours sincerely,

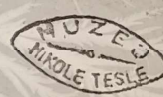
470.

46, E. Houston St.,

New York City, July 12th, 1895.

Mr. Albert Schmid, Gen.Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

466
485



My dear Mr. Schmid:-

Your letter of July 11th received.

I meant the kind of binding-posts which you usually put on your dynamos. I thought that you had a large number of these binding-posts in stock, as you are constantly using them, and I would wish the large size. Anything that you select will be suitable for me. I would make them up in my shop, but I cannot spare the time, as I must keep my men on more important work.

Hoping that you will be able to find something which will do for my purpose, and thanking you, I am

Yours sincerely,

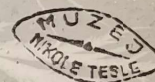
485-

46, E. Houston St.,

New York City, July 24th, 1895.

Mr. Albert Schmid, Gen.Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.

476
497



My dear Mr. Schmid:-

Your letter and blue-print for binding-posts received. Kindly excuse delay in answering, which was caused by some derangements in my office.

I have taken the liberty of cutting out the print of the binding-post I shall require from your sample sheet. You will greatly oblige me if you will forward six dozen of these binding-posts at your earliest opportunity.

I have not, as yet, received the motors and switches about which I have written you before. I anticipate that they have been forwarded in accordance with your promise.

Thanking you for your kindness, I am

Yours sincerely,

497.

46, E. Houston St.,

New York City, July 26th, 1895.

485

Mr. Albert Schmid, Gen. Supt.,
Westinghouse Electric Co.,
Pittsburgh, Pa.



My dear Mr. Schmid:-

Your letter of July 25th has just reached me. I have wired in reply as follows: "Please forward binding-posts single, not mounted in pairs. Oblige by shipment without delay by express."

I hope that you will be able to ship these binding-posts this week, as I want them; and also that the 1/2 H.P. motors have been forwarded in accordance with your letter.

Yours very sincerely,

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

Sept. 4th. 1895.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Mr. Nikola Tesla,

New York City.



Dear Sir:-

This letter will be handed to you by Mr. Cleveland Moffet,
concerning whom you have already received a letter signed by Mr. Bannist
-er and sent through the mails by mistake.

Yours truly,

Westinghouse Electric & Mfg. Co.,

J. F. Jones
Private Secretary.

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

October 11th,

ALBERT SCHMIDT,
General Superintendent.

Nikola Tesla, Esq.,

The Corliss, New York City.

Dear Sir:-

Just this morning I was informed by the mail of the death of
the man who has been of such service to you. He was just
to work in the factory and about the middle of last week was taken ill
with the flu. He went to the Hospital in this city
and last Saturday he died. He was a very kind and
friendly man and a very good worker. He was a
very good friend of yours and I am sure you
would be interested in hearing of his death.

Yours very truly,

Harry E. Fay.

H.E.F.

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa. Dec. 18th, 1895.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Mr. Nikola Tesla,

The Gerlach,

New York.

Dear Sir,

I am sending you under another cover a set of circulars describing our apparatus. The publication of this series of circulars was undertaken a few months since, and you will note that a number of them describe machinery which we have been manufacturing for a number of years. We send also one of the flexible covers provided for filing purposes, and our Mr. Dickson will see that a copy of each additional circular is mailed to you from time to time as issued.

I think you will be particularly interested in circulars Nos. 3 and 10, and if you have any criticism or suggestion we shall be most happy to receive it, and profit by it.

Very truly yours,

L. B. Seaman

LBS/AD.

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

Dec. 23, 1895.

A.

ALBERT SCHMID,
General Superintendent.

Mr. Nikola Tesla,

Thb Gerlach,

New York, N. Y.

My Dear Mr. Tesla:---

I have arranged to go abroad on the 22d of January, and expect to make an extended tour through Europe. I shall visit Italy, France, Germany, Austria, Switzerland, England, etc., and would consider it a great favor if you would forward me, at your earliest convenience, letters of introduction to firms like the Ganz people, Schneider & Company, Helios Company, and to some of the prominent electricians and engineers in the above countries; also Mr. Brown, of Switzerland. I shall see you before I sail.

With the best wishes of the Season, I remain,

Yours Very Truly,

Albert Schmid

A.S.



Ms. 481
AND MANUFACTURING CO. (Rice 7227) Nikola Tesla
folded 19

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

December 24th, 1895.

ADDRESSES ALL COMMUNICATIONS
TO THE COMPANY.

Mr. Nikola Tesla,

#46&18 East Houston st., New York City.

My dear Sir:-

Your very kind letter of December 19th. is duly received, and I highly appreciate your willingness to assist us by allowing the use of your name and photograph. I showed your letter to Mr. Westinghouse, and he expressed his gratification.

Upon thinking the matter over, however, and looking at it rather from your standpoint, I concluded that before carrying out my plan for an advertisement in Cassier's, it would be wise to have a talk with you, and possibly with Mr. Adams, in order that there might be no possible misunderstanding or dissatisfaction. I have therefore deferred the advertisement and so notified the Cassier Magazine Co.

Again thanking you for your courtesy, I am

Yours very truly,

L. B. Stille
Electrical Engr. & Asst. Mgr.

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

December 26th, 1895

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Nichola Tesla, Esq.,

46 East Houston St.,

New York, N.Y.

Dear Sir:—

Referring to your order of July 17th, beg to advise that we have the half horse-power, single phase, A. C. motor ready for shipment. Kindly advise us, if we shall ship by freight or express.

Yours very truly,

WESTINGHOUSE ELECTRIC & MFG. CO.

By

D. Carlington



WME

223^v
New York, Dec. 31st, 1895.

40 & 48 E. Houston Str.

17, 183, 202, 22, 282, 303

Westinghouse Electric Co.,

Pittsburgh, Pa.

Gentlemen:-

Your favor of Dec. 26th has reached me.

I am glad to learn that a half U. P. single phase motor
has been sent, and wish to say, that I shall be obliged if you will
ship it without delay, as I need it very much.

Hoping to receive it soon and in good order, I am,

Yours very truly,



227
New York, Dec. 31st, 1900.
40 & 48 E. Houston Str.

Mr. Albert Schmidt,

Westinghouse Electric Co.,

Laburnum, Va.

Dear Mr. Schmidt:



Thanks for the occasion of your coming to
the office of the Co. and for the
information which will be of great value to me in
the future and which will be of great value to
the Co. for your work, of which you can be proud, is the best recom-
pensation.

Anticipating the pleasure of seeing you soon, I am,

Yours sincerely,

Westinghouse Electric & Manufacturing Company.

120 BROADWAY.

NEW YORK, N. Y., February 20th, 1896.

Nikola Tesla, Esq.,
46 E. Houston St.,
City.



Dear Sir:-

We would be pleased to have you use your influence to have
Dr. Louis Duncan nominated for Presidency of the American Institute of
Electrical Engineers for the coming year.

Yours truly,

Wm. F. ZIMMERMANN,

Gen'l Eastern Agent.

Ms. 481

Adm. Manufacturing Co. (Biel 7227) Nikola Tesla

Folded 19

340
New York, March 13th, 1896.

46 & 48 E. Houston Str.



Mr. P. D. Lange,

Sup't Westinghouse Co.,

Pittsburg, Pa.

My dear Mr. Lange:-

I have known Mr. O. A. Sandborgh for some time
and think him to be a very good man in every particular.

He is an excellent draftsman and, as far as I can see,
could make his way in any of the departments of your large works.
I would be glad to give him a position in my own shop, if I had an
opportunity. You will greatly oblige me if you will do for him
what you can, and I hope that you will have every reason
to be satisfied
with his services, should you give him employment.

Yours sincerely,

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

March 18th, 1898.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Mr. Nikola Tesla,

The Gorlaugh,

New York.

My dear Sir,

I duly received on Saturday last your telegram asking us to extend courtesies to your friend Mr. Laurel, and answer. It would give us pleasure to receive a visit from Mr. Laurel, but up to the present writing he has not, to our knowledge, appeared in Pittsburg. Should he call upon us, you may be sure that we shall be glad to give him our best attention, both because he is Mr. Laurel, and because you have requested it.

Very truly yours,

W. B. Smith
Elec. Engineer & Asst. Manager.

LES/AD.

8²
New York, May 2nd, 1896.

#46 & 48 E. Houston Str.

Mr. W. H. D. Lange,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Lange:-

This will introduce to you Mr. A. Pfeiffer, who has been highly recommended to me, and in whose ability and integrity I have great confidence. He has received an excellent training at the Sheffield Scientific School and has, besides, done practical work.

If you will accord him an opportunity to convince you of his abilities I shall be much obliged.

Yours sincerely,



Westinghouse Electric & Manufacturing Company.

P

120 BROADWAY,

NEW YORK, N. Y.,

May 27th, 1896.



Nikola Tesla, Esq.,

No. 46 East Houston St., City.

Dear Sir:-

Some time ago while I was engaged in some experimental work at East Pittsburgh Mr. Page sent me one of your original motor models which had been entrusted to him by you. In accordance with instructions received from Mr. Page yesterday I have just written Pittsburgh instructing them to ship this model by express to you at 46 East Houston St. When the same is received will you kindly acknowledge it?

Very truly yours,

Ralph T. Merriam

Westinghouse Electric & Manufacturing Company, Pittsburg, Pa.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Nikola Tesla, Esq.,

The Carlisch,

New York, N. Y.

My Dear Sir:

I am sending you by express a short piece of
cable through which passed the first current
of the Niagara Falls Power Co., at Niagara, N. Y.

We have furnished similar souvenirs to
Chief of Construction Co., and the officers of
the company. Mr. Melville and Mr. Hendrickson, and
particularly interested, have much pleasure in
you. Please accept this with the best
Westinghouse Company.

Our friend, Dr. H. A. ...
can tell you all about it. Sample ...
subjected to breaking tests in our laboratory ...
case was ruptured by a potential of ...

I am very sorry that I did not
personally showing you the Niagara ...
Mr. Adams and Mr. Hendrickson ...
electrical apparatus, no ...

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa. July 23rd, 1896.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Nikola Tesla, Esq.,

The Gerlach,

New York, N. Y.

My Dear Sir :-

I am sending you by express, a short piece of cable through which passed the first current generated in the world at the Niagara Falls Power Co., at Niagara, April 10th, 1895.

We have furnished similar souvenirs to the Director of the U. S. Army of Construction Co., and to the officers of the U. S. Army of Engineers, Melville and Mr. H. H. New, and if you are particularly interested, have much pleasure in sending you. Please accept this with the best compliments from the Westinghouse Company.

Our friend, Dr. H. H. New, is a very good man and can tell you all about it. It is a souvenir of the first current generated in the world, and is a very interesting relic. It is a piece of cable which was used in the first experiment in breaking down the cable in the case of a rupture of the cable. It is a very interesting relic and is a very good souvenir.

I am very sorry that I cannot personally show you the first current generated in the world. It is a very interesting relic and is a very good souvenir. It is a piece of cable which was used in the first experiment in breaking down the cable in the case of a rupture of the cable. It is a very interesting relic and is a very good souvenir.

Mr. Tesla,

No. 2.,



been over-looked.

You may be interested to know that the Patent Office has allowed me a patent covering the principal elements of the organization of switch board apparatus, which I trust will be useful to the Westinghouse Company in securing additional orders for extension of the plant.

It was a great pleasure to see you in Pittsburgh and I trust that your next visit will not be so long delayed as was the last one.

Very truly yours,

L. B. Stowell

257,

New York, August 1st, 1896.

446 & 48 E. Houston Str.

8



Mr. H. D. Lange,

Gen'l. Westinghouse Electric Co.,

Pittsburg, Pa.

My dear Mr. Lange:-

Mr. Houston has been recommended to me very highly. I have seen him and he has impressed me as a man having thorough knowledge of mechanics and unusual experience. It is my opinion that, if you would give him employment, you would be entirely satisfied with his services.

Yours very truly,

Inclosure

85

Westinghouse Electric and Manufacturing Company,

Pittsburg, Pa. *September 4* 1896

Mr. Nikola Tesla.

New York City, N. Y.

Dear Sir:

I have taken the liberty to send you under separate cover a copy of my first novel, entitled "The Game," and although I am not unconscious of the fact, that you are a very busy man, I flatter myself, that you will be sufficiently interested in the book to do me the honor of accepting it.

Sincerely Yours

Frederick W. Stearns

97
New York, Jan. 3rd, 1897.

#46 & 48 E. Houston Str.

Westinghouse Electric & Manufacturing Co.,

Pittsburg, Pa.

Gentlemen:-

Would you be kind enough to forward some of your catalogues, relating to polyphase motors, to the following address:

Mr. S. Kimura, Professor of Physics, Sendai, Koto Sakai, Japan.

I shall be much obliged for your attention and hope that eventually something to your interest may result from it.

Very truly, yours,



320.

New York, May 22nd, 1897.

#40 & 48 E. Houston Str.

Mr. S. W. Scott,

Electrician Westinghouse Elec. Co.,

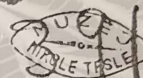
Pittsburg, Pa.

My dear Mr. Scott:-

I would herewith introduce to you Mr. J. Tachihara, who has arrived from Japan with a view of acquiring practical knowledge of electrical machinery, particularly of the long distance transmission of power.

Any help or courtesy extended to him will be very much appreciated by.

Yours sincerely,



Westinghouse Electric & Manufacturing Company.

Pittsburg Agency.

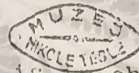
To secure prompt attention address reply to
Room 27, Westinghouse Building.

Pittsburg, Pa. May 28, 1897.

Mr. Nicola Tesla,

New York, N. Y. (East Houston St.)

My dear Mr. Tesla:-



One of my friends is in charge of the Adams Mining property, an iron ore mine owned by the Rockafelter interests in Minnesota. They of course have a large number of operators and accidents are continually happening. They have a very progressive hospital and medical system in charge of a very capable physician, Dr. Moore by name. Dr. Moore wants to secure X ray apparatus which will enable him in case of an accident to a man to make a quick photograph of the injured parts, and from this determine as to the best method of procedure. If possible he would like to get a machine which would enable him to make a photograph through the hip with an exposure of five minutes. It is the writer's recollection that you are interested in the manufacture of such a machine. If my impression is correct will you kindly send me such circulars as you may have and advise me whether the pictures he desires are within the range of possibilities at the present stage of the art.

Thanking you in advance for your courtesy in this matter, I
beg to remain,

Yours truly,

Alfred Hartwell

MS 481

AND MANUFACTURING Co. (Reel 7227) Nikola Tesla

folded 19

Hartwell
Westinghouse Electric & Manufacturing Company.
Pittsburg Agency.

To secure prompt attention address reply to
Room 27, Westinghouse Building.

Pittsburg, Pa. June 5, 1907.

Mr. Nicola Tesla,
46 E. Houston St.,
New York, N. Y.

My dear Mr. Tesla:-



I have your kind favor of the 3rd instant, for which please accept the writer's thanks. I have advised Mr. Moore to hold off in his purchase until your machinery is ready for the market. As soon as it is will you kindly send me some detailed information concerning the apparatus.

Thanking you for your courtesies in this matter, and particularly your kind invitation, which I have transmitted to Dr. Moore, I beg to remain,

Yours truly,

Arthur Hartwell
AH.

356

New York, June 9th, 1887.

#46 & 48 E. Houston Str.

Mr. C. F. Scott,

Electrician Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Scott:-

This letter will be presented to you by Mr. A. Einhardt, who is recommended to me highly by some European friends. Being an electrical engineer he is naturally much interested in inspecting your works, and I would be much obliged to you for any facility you may be able to afford to him in this connection.

With kind regards, I am

Yours sincerely,

320

356

391



Ms. A. 81

AND MANUFACTURING Co. (Reel 7227) Nikola Tesla

Folder 19

91

Westinghouse Electric & Manufacturing Company.
Pittsburg Agency.

To secure prompt attention address reply to
Room 27, Westinghouse Building.

Pittsburg, Pa. June 15. 1897

Dear Mr. Tesla:

The enclosed from to-day's Leader
may probably afford you a few moments quiet
amusement

Yours sincerely

J. H. Sturwick



Ms. A. 81

AND MANUFACTURING CO. (Riel 7227) Nikola Tesla

Box 8
Folder 10

374

New York, June 19th, 1897.

440 W 40 E. Houston Str.

9

Mr. E. H. Heinrichs,

Westinghouse Electric Co.,

Pittsburgh, Pa.



Dear Mr. Heinrichs:-

I am much obliged to you for your note of June 18th which, with inclosed poem, I have received.

You will observe that practically at the same time an effort was made in France to kill President Faure. Although the latter was a comparatively insignificant event you will not fail to be impressed with the singular co-incidence.

Yours sincerely,

AND INFORMATION Co. (Reel 7227) Nikola Tesla

folded 19

93. 14

391.

New York, June 20th, 1897.

310 & 40 E. Houston Str.

356
320

Mr. Charles F. Scott,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Scott:-



This will introduce to you Mr. Koloman von Kundo, chief engineer of a large electrical concern of Austria-Hungary, who is desirous of inspecting the Westinghouse works and also of meeting you personally.

I suppose that he would naturally receive from you all the courtesies due to him, and I only wish to say that I shall be much obliged for any facility you may be able to extend to him on his visit.

Yours sincerely,

94.

Ms. A. 81

AND MANUFACTURING CO. (Reel 7227) Nikola Tesla

Folder 19

Westinghouse Electric & Manufacturing Company,

Address reply to
WM. F. ZIMMERMANN,
GENERAL EASTERN AGENT.

120 BROADWAY, NEW YORK, N. Y.

July 26th, 1897.

Nikola Tesla, Esq.,

No. 46 East Houston St., New York.



My dear Sir:

A friend of mine writes asking whether you would care to lecture at the Music Hall of the Carnegie Library, Pittsburgh. This will not be a gratis job, and I think if you would care to lecture they would pay you the usual compensation, the amount of which I do not know, but if you will consider the proposition I would be pleased to have you let me know and I will immediately put the proper party in communication with you. The question has been asked me and therefore I take the liberty of writing you with regard to same, so please do not hesitate to do just as you feel. There is no obligation on my part, and as I understand it, lectures given at this Hall are given for "revenue".

If you will kindly let me know your views on this subject I will be very much obliged.

Yours very truly,

ANSWER
MCS 481

AND MANUFACTURING CO. (Reel 7227) Nikola Tesla

Folder 19

New York, Sep. 15th, 1887.

46 & 48 N. Houston Str.

Mr. C. P. Scott,

Westinghouse Electric Co.,

Pittsburgh, Pa.

My dear Mr. Scott:-

I read in the electrical papers an article referring to a large induction motor recently installed at Niagara. Would you not be kind enough to give me some particulars for my personal information?

Yours sincerely,



Westinghouse Electric & Manufacturing Company,

-A-

Pittsburg, Pa.

Sept. 23rd, 1897.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

SUBJECT - INDUCTION MOTOR.

Mr. Nickola Tesla,
46-48 E. Houston St.,
New York City.

My dear Mr. Tesla:-



In reply to your note asking data regarding a large induction motor, I take pleasure in sending you several photographs and an outline drawing giving the dimensions.

The primary winding consists of coils of thin copper strap. The motor is started by applying a low voltage received through transformers. The line current for starting at half the full load torque is just about equal to the normal full load current, and the starting torque can be increased with a corresponding increase in line current. The pulling out torque is over five or six times the normal full load torque. The power factor at half load is 91% and at full load is 96%. The efficiency is 90% at half load and 91% at full load.

The motor has a no-load speed of 375 revs. when running on a 3000 alternation circuit and the slip at full load is about 3%. The normal voltage on each of the two phases is 2200 volts. The maximum rise of temperature when carrying 500 H.P. is about 30 degrees C. The motor can readily carry 500 H.P. but is rated at 400 H.P. as the contract under which it was sold calls for a considerable overload capacity. Two of these motors have been made, the first of which has been in successful operation in the lighting station at Niagara Falls, driving the dynamos in the station, for the past month or so.

This is I beleive the largest outgrowth of the induction motors on which we worked so energetically a number of years ago.

Yours very truly,

C.F.S.


CHIEF ELECTRICIAN

188

New York, Sep. 24th, 1907.

346 & 48 E. Houston Str.

167
228

Mr. C. F. Scott,

Westinghouse Electric Co.,

Pittsburgh, Pa.



My dear Mr. Scott:-

I have received your kind letter of Sep. 23rd together with the photographs and drawing of the 400 H.P. motor. Your valuable paper on the installation of Niagara Falls has also reached me and I have perused it with interest.

The results you give appear to me remarkable, and I see from them that you have not stopped working on these motors since I left them in your hands.

I look upon these results as particularly valuable inasmuch as they show that large machines of that type can be built and successfully operated.

Thanking you for your courtesies, I am,

Yours very truly,

98 11 19

228

New York, Oct. 15th, 1907.

188
167

Mr. C. F. Scott,

Chief Electrician, Westinghouse Electric Co.,

Pittsburgh, Pa.

Dear Mr. Scott:



I have the honor to introduce to you here with
Mr. Auguste Willem, who, in my capacity of Engineer, is en-
gaged to inspect the motor, the dynamo and the work in the
works of the company. Your secretary or assistant should be
in visit will be greatly appreciated by me.

Yours sincerely,

And Manufacturing Co. (Riel 7227) Nikola Tesla

Westinghouse Electric & Manufacturing Company,
Pittsburg, Pa.

St. Louis Office, American Central Building,

October 26, 1897

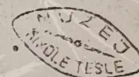
N. Tesla, Esq.,
#46 East Houston St.,
New York City.

Dear Mr. Tesla,

Your friend, Mr. Auguste Boissonnas, called on me to-day, and I was very sorry that he was simply going through and I could not show him the various things he wanted to see. He expects to stop here again on his way home from Mexico, and I will then show him all there is in this city.

Yours very truly,

G. W. Vantaleoni



AND MANUFACTURING CO. (RUE 7227) PIRELLA TESTA
1898-1899

Westinghouse Electric & Manufacturing Company.
Pittsburg Agency.

To secure prompt attention address reply to
Room 27, Westinghouse Building.

Pittsburg, Pa. Dec., 3, 1897

Nikola Tesla, Esq.,

Hotel Gerlach,

New York, N.Y.



My Dear Tesla:-

I notice by the Pittsburg Papers, that you have been sick, but are now convalescing, and I take this opportunity to congratulate you upon this fact and hope that you will keep in the best of health as long as you yourself may wish.

Always, yours sincerely,

J. H. Heinrich

MS 481

336

New York, Dec. 1th, 1907.
#10 & 40 E. Houston Str.

0

Mr. E. W. Heinrichs,
Westinghouse Electric Co.,
Pittsburgh, Pa.



My dear Mr. Heinrichs:-

Thanks for the evidence of your kind interest.

It is true that I have not been quite well of late, but can assure you that I am physically and mentally alright at present. I have, however, still a little ailment which may be best designated as financial worries, from which you are yourself suffering, if I am not mistaken.

I wish you would remember me to all the boys at about Christmas time, for it is just possible that some of them might feel disposed to send me a token.

Yours sincerely,

AND MANUFACTURING Co. (Reel 7227) Nikola Tesla

Ed. J. J. 10

Westinghouse Electric & Manufacturing Company.
Pittsburg Agency.

To secure prompt attention address reply to
Room 27, Westinghouse Building.

Pittsburg, Pa. Dec., 8, 1897

Nikola Tesla, Esq.,

New York, N.Y.

My Dear Mr. Tesla:-



Many thanks for your kind favor of the 4th inst. While I am very glad to hear that you are physically and mentally in perfect condition, it grieves me very much to have you inform me, that you are ailing with what you choose to call "financial anaemia", still, as you say, there is some consolation in knowing that you have many fellow sufferers, your "humble servant" being one of them.

I shall remember your wish about speaking of you to the boys in Pittsburg and trust that some of them will feel disposed to send you a christmas remembrance.

With kindest regards, always,

Yours sincerely,

Ernest H. Hinrichs

Westinghouse Electric & Manufacturing Company,

Pittsburg, Pa.

January 3rd., 1898.

ADDRESS ALL COMMUNICATIONS
TO THE COMPANY.

Account.



Mr. Nikola Tesla,
#46 East Houston St.,
New York, N. Y.

Dear Sir :-

We enclose herewith statement of your account up to date, together with our receipt for the same, and the writer is instructed by Mr. Westinghouse to say that we have pleasure in sending you this receipt and that in so doing we quite appreciate the service you have from time to time rendered us in recommending our apparatus, in having interested customers in our behalf and in many ways materially assisting the interests of our Company.

With the best compliments of the season, we are

Yours very truly,

Second Vice President.

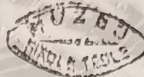
BHW

Enclosure

Westinghouse Electric & Mfg. Co.,

Pittsburgh, Pa.

Gentlemen:-)



I have not before this answered your kind letter of Jan. 3rd, which, with inclosed statement was duly received, because I have daily expected that my affairs would bring me to Pittsburgh, where I would have had the opportunity to thank you in person for your considerate treatment.

Though I cannot exactly take your view of the matter, considering that the larger portion of your apparatus was furnished to me on Mr. Schmidt's suggestion for the purpose of facilitating further investigations in the field of my system of polyphase power-transmission, I nevertheless appreciate very much your fairness and would beg you to transmit to Mr. Westinghouse my thanks as well as my best wishes for success in the future.

It has been my principle, ever since I have devoted myself to scientific laboratory research, never to accept fees or compensations for professional services, and I could not take advantage of your offer were it not that most of your machinery was destroyed by fire. It would have been my duty to insure the apparatus, and in such an event the amount would have been integrally

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199,375

MS 481

Amesbury, N.H. 1898-1901

16

105

MSA 481

turned over to you, but as it was not insured I am sharing your loss, since I have been deprived of the instruments which are necessary for the successful continuance of my labors in the province in which, thanks to Mr. Westinghouse's foresight, you are occupying the leading position to-day.



Although, if I were to prize my services, I would put on them a much higher value than you could afford to pay, I wish to state here purposely and explicitly, that you should not feel in the slightest obliged to me for whatever I did for you, as I considered it fairly your due and to the interest of my friends and those who placed confidence in my opinion.

Believe me to be,

Yours very truly,

MSA 481
Muzee Mikolteski Co. (Reel 7227) Mikolteski Test
1889-1891

EXCELLENT PHILOSOPHICAL SUMMARY (Co. Howard's Field Handbook)

MS 481

87

New York, Feb. 27th, 1898.

#46 & 48 E. Houston Str.

0
104.40

Karl Till, Esq.,

136 W. 64 Str.,

N. Y. City.



My dear Sir:-

Will you please call at your earliest convenience
at my office, above address. It is possible that I might be able
to do something to your advantage.

Yours very truly,

MS 481 - 1898 - 1244

107 12

104

New York, March 5th, 1898.

#46 & 48 E. Houston Str.

87
~~402~~
402

Mr. Charles Till,

Westinghouse Electric Co.,

East End Ave., Pittsburgh, Pa.



My dear Sir:-

I have been very glad to learn from your letter of March 3rd, just received, that my friends of the Westinghouse Company have found it possible to give you employment. When you came here I spoke to one or two friends about you, but there was little prospect then for a position.

I cannot conscientiously say that I could offer you anything better than you have at present and would advise you to stay there. Should you, however, be again in need of a position, you may call on me and I shall do my best to place you.

Yours very truly,

10812

Westinghouse Electric & Manufacturing Company,
Pittsburg, Pa.

-N-

May 17th, 1898.

SUBJECT - TRANS-MISSISSIPPI INTERNATIONAL EXPOSITION.



Mr. Nikola Tesla,
#46 E. Houston street,
New York City.

My dear Sir:-

In the coming Trans-Mississippi International Exposition we have taken a large and prominent space and will give special prominence to a Tesla exhibit. We will have polyphase generators and motors, and desire to add to the interest of the exhibit by placing the early Tesla apparatus. A large exhibit of this was made at the World's Fair which was then sent to you in New York. It is possible that this may have been lost in your fire, though perchance it may have escaped and is now available. We request that you will let us have for exhibit as much material as is practicable. Let us know with regard to the matter at an early day as the Exposition opens very soon.

Very truly yours,

WESTINGHOUSE ELECTRIC & M'FG CO.

CFS

L. A. Osborne
ASS'T TO SECOND VICE PRESIDENT

199

New York, May 18th, 1898.

#46 & 48 E. Houston Str.

55
375

Westinghouse Electric Co.,

Pittsburgh, Pa.

Gentlemen:-



Your favor of May 17th, in the matter of the Trans-Mississippi International Exposition, has been received.

While I would prefer not to give undue prominence to my name, I would nevertheless do my utmost to comply with your wish, if I could do so efficiently. I have practically nothing suitable for exhibition beyond a large ring you forwarded to me, which is one of my close companions in the laboratory and from which I would not like to part. I presume that people nowadays will be far more interested in your splendid machinery than in this early apparatus.

Believe me to be,

Yours very truly,

M55 481

W. A. Manufacturing Co. (Riel 7227) Nikola Tesla
Inventor of the alternating current - 1888-1944

folded 19

109

Westinghouse Electric & Manufacturing Company,
Pittsburg, Pa.

- A -

Oct. 12th. 1898



Mr Nicola Tesla,
New York City, N.Y.

Dear Sir :-

Your telegram of October 12th., addressed to
Mr Means has been referred to me.

The man you refer to is probably Mr Haardt, who came to
us last December. I have just spoken to him about the matter and
he is in doubt as to whether he wishes to take the position.

Would request that you kindly advise me what is the
nature of the work required and if Mr Haardt wishes to accept the
position, we shall be glad to let you have him. If not, I will
see if we can recommend another candidate.

Yours very truly,

OSL-JT/G

O. S. Snyder, Jr.

Chief Engineer.

P.S.

Have just telegraphed you as follows, "Means not with
this Company. Have written."

OSL-Jr.

MSA 481

375

New York, Oct. 12th, 1888.

44 & 45 E. Houston Str.

0
1001

Westinghouse Elec. & Mfg. Co.,

Pittsburg, Pa.



Gentlemen:-

I wish to thank you for your communication of the 1st inst. in relation to Mr. Harold's case. It was not until I learned of his leaving your employ, and I hope you will excuse me for troubling you unnecessarily with the matter.

It is due to you to explain that I inquired about Mr. Harold, who wrote me some time ago, asking for a position with me. Mr. Harold came to this country for a short stay, intending to perfect himself in various technical lines, and he was recommended to me by my Professor Hertel of the Polytechnic School in France. I am very desirous to oblige my professor and inquired about Mr. Harold with a view of giving him the employment he sought for. Of course, all was subject to Mr. Means' approval.

Yours very truly,

AND HAROLD'S CASE - 1888-1891

111

Undated, blank Western Union telegraph form

MS 481

Addressed - 1888-1891

6/1

Andersson, Leonard - Ardmore and Manuscript Collections - MSS 481

Library of Congress - Westhouse Electric
and Manufacturing Co. (Prel 7227) Mabel Tesla
Correspondence - 1888-1891

Folder 182

Box 8
Folder 19

Oct. 12, 1898

Undated, blank Weston Union Telegraph form

Anderson, Leland -
MS 481

Library of Congress - Western Manuscript Collection -
And Manuscript Division, N. C. (reel 7227) Nikola Tesla
Correspondence - 1888 - 1891
Folder 1 of 3

Box 8
Folder 19

Anderson, Leonard - Ardmore and Manuscript Collections - MSS 481

Oct 17 1898

Oct. 13, 1898

Library of Congress - Westhouse Electric
and Manufacturing Co. (Reel 7227) Nikola Tesla
Correspondence - 1888 - 1899

Box 8
Folder 19

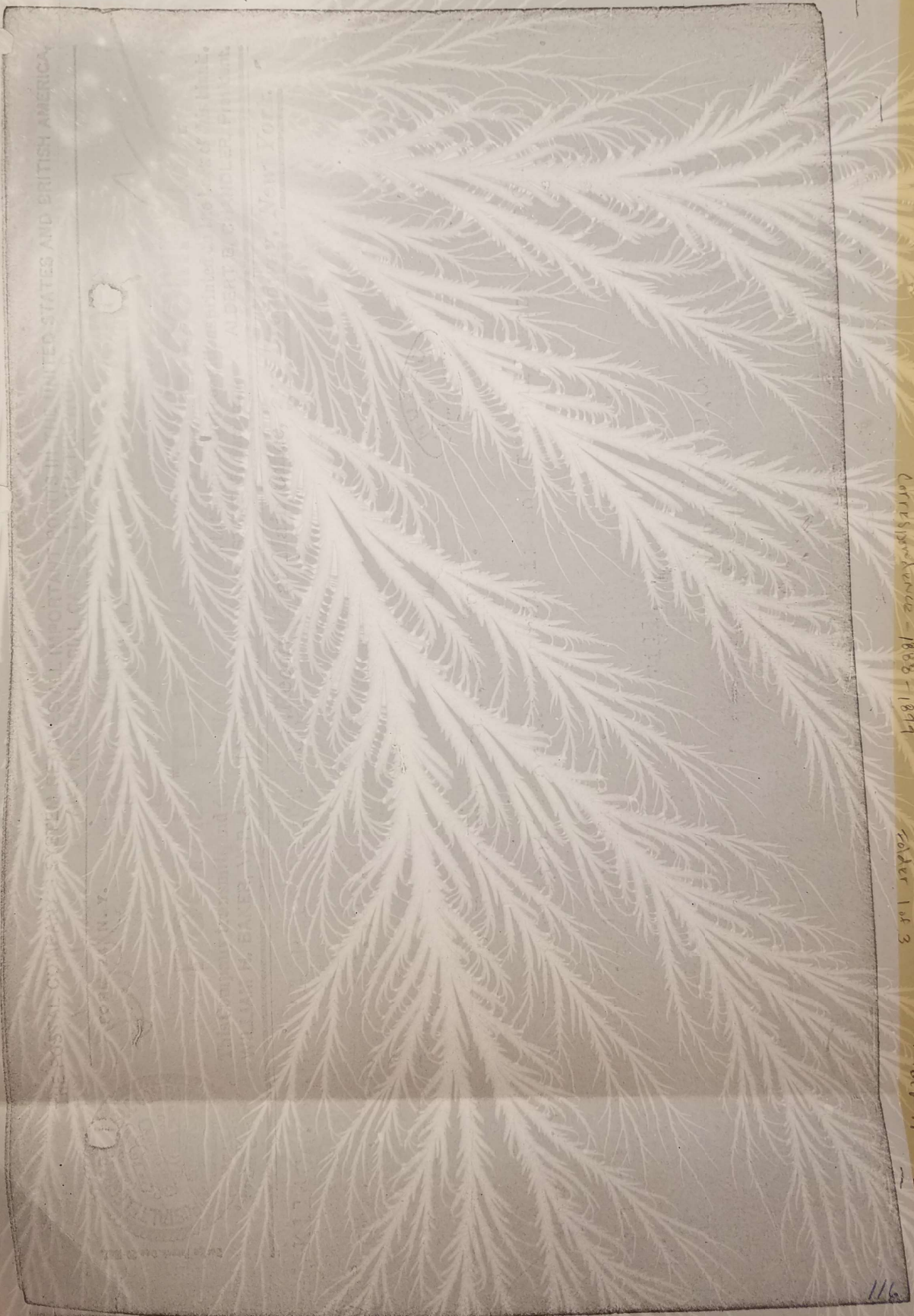
Oct. 17, 1898

Anderson, Leonard - Historical and Manuscript Collections - MSS 481

Library of Congress - Westwood, Electric and Manufacturing Co., (Box 722 1/2) Nikola Tesla - Correspondence - 1888-1897

Folder 143

Box 8
Folder 19



Anderson, Leland - Arden and Manuscript Collections - MSS 481

Oct. 26, 1898

Library at Corvoss - Westhouse Electric
and Manufacturing Co., (Reel 7227) Arden Todd
Correspondence - 1888-1899

Box 8
1914-19

Oct. 27, 1898

Undated, blank Western Union telegraph form

Anderson, Leland - Tribune and Manuscript Collections
MS 481

Library of Congress - Westmanhouse Electric
and Manufacturing Co. (Box 7227) Model Test
Correspondence - 1888 - 1897
Folder 1 of 3

Box 8
Folder 19

Oct. 27, 1898

369
A

New York, Nov. 12, 1898.

W. Houston, Tex.

0
1

Mr. Charles W. Hill,

East End Ave.,

1005 St. St., N.Y.

My dear Sir:-



I have to acknowledge your letter of the 12th inst. to
Gov. Ord, and am glad that it has been directed to the
very person who is in charge of the matter. It is my duty
in the near future to report on the subject and I will
take pleasure in informing you of the result. With this object in
view your address will be preserved.

Very truly,
W. Houston, Tex.

AND MANUFACTURING Co. (Reel 7227) Akola Tesla
Correspondence - 1888-1897
Folder 1083

Correspondence - 1888-1897
Folder 1 of 3
Folder 19

New York

Dear Sir. —



Respectfully Yours
Charles V. Till

Westinghouse Electric & Manufacturing Company,

120 BROADWAY, NEW YORK, N. Y.

February 21st, 1899.

Nicola Tesla, Esq.,

#46 East Houston St., City.

Dear Sir:-

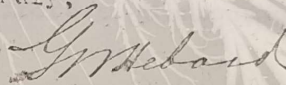
We beg to remind you that your note, for

	\$6,000.00
+ Interest,	90.00
Total,	\$6,090.00

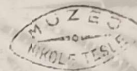
is payable at this office on February 28th, 1899.

Kindly have funds here in time to meet the same and thereby oblige,

Yours truly,



Acting Vice President.



New York, Feb. 24th, 1899

#46 & 48 E. Houston Str.

Westinghouse Elec. & Mfg. Co.,
120 Broadway,
New York City.

Gentlemen:-

Your very categorical reminder of Feb. 21st has been duly received, and with the exception of its being premature, unnecessary and rather terse in expression, and implying the erroneous assumption that I was forgetful of assumed duties, it was appreciated and approved as an effort to discourage the objectionable habit of borrowing money.

Long ago I would have taken the pleasure of calling on you with reference to the agreeable cause of our last meeting, had I not been since that time engaged in psychological research, to which the recent utterances of my illustrious friend, Sir William Crookes, have prompted me. I am at variance with him and other philosophers as to the origin of mental states and transmission of mind efforts. According to my contention, there is no mental state which would not be the direct result of physical impressions, nor can there be any influence of mental efforts at a distance. This very experience with you has afforded me a striking illustration of the truth of my contentions. The other day I dreamt that I

Copies preserved 1899-1911
Folder 1 of 3

received from you a check for fifty thousand dollars, inclosed in a letter, the wording of which I cannot now exactly remember. I think, though, you stated that this sum was but a small compensation for services I had rendered to you for several years. I can distinctly recall that, among other things, you referred to me going to all my wealthy friends and enlisting their interest on your behalf at a time when you were in adversity, and to my great help in connection with your enterprises at Niagara, Massena and many other places, and if I do not err, judging from your statements, you seemed actually overwhelmed, not to say distressed, at the amount of your indebtedness to me.

Now, on awaking, I began to investigate the origin of this singular dream, which gave me much pleasure for a moment, and after carefully examining all the old shelves in my memory, I satisfied myself thoroughly that, in accordance with my views, every particular of this dream was suggested by events which had actually occurred. Naturally I was greatly interested to see whether there was any truth to the doctrine of thought transmission, which my illustrious friend and some of his followers are now propounding. Of course, while of the opposite opinion, I could not ignore the views of such high authorities, and my interest naturally rose to the point of excitement as the 28th of February drew near. I was

about at the height of my expectations, when your appreciated favor of the 21rst inst., before referred to, reached me. Its contents left no room for doubt in my mind, that there was not any thought transmission in this instance, and I was further strengthened in my view that the interaction and equivalency of efforts, which Spencer so eloquently propounds in his "First Principles" and which literally apply to the material world, do not hold good for mental states.

The recognition of these important truths and unification of the several corollaries [*sic*] and deductions derived from them, will forcibly lead to the foundation of a new system of philosophy, extremely materialistic in its general aspects and characteristics, but highly useful for all practical purposes, when thoroughly comprehended and rigorously applied in all dealings and relations with our fellowmen. The current belief in the integral restoration of efforts not demonstrable by material evidences, which has heretofore often formed the basis of verbal understandings and agreements greatly to the advantage of those whose epidermis is developed to such unusual degree of thickness, which is peculiar to a certain class of low animals commonly known as crocodiles - will gradually disappear and will be finally restricted to those individuals who have a natural predisposition for the non-fulfillment of their ob-

jects and desires in the various pursuits of life. It will become an absolute necessity for the furtherance of worldly interests and maintenance of friendly and harmonious relations to establish in advance exact, material and tangible equivalents for all our efforts and performances, and it will be soon recognized that a close observance of these principles will be conducive to a great success, while ignoring them will, sooner or later, bring about a disastrous failure.

Apologizing that under the spell of these thoughts I have forgotten myself to dwell at length on this subject, possibly of no interest to you, and calling your attention to the inclosed check for \$6,090.00, the receipt of which you will oblige me by acknowledging, I remain, with thanks,

Yours truly,

Inclosure.

MS 481

125

New York, Feb. 24th, 1899.

#41 & 43 E. Houston Str.

Westinghouse Elec. & Mfg. Co.,

107 Broadway,

New York City.

0
126
RUZES
NIKOLE TESLA

Gentlemen:-

Your very categorical reminder of Feb. 21st has been duly received, and with the exception of its being premature, unnecessary and rather terse in expression, and implying the erroneous assumption that I was forgetful of assumed duties, it was appreciated and approved as an effort to discourage the objectionable habit of borrowing money.

Long ago I would have taken the pleasure of calling on you with reference to the agreeable cause of our last meeting, had I not been since some time engaged in psychological research, to which the recent utterances of my illustrious friend, Sir William Crookes, have prompted me. I am at variance with him and other philosophers as to the origin of mental states and transmission of mind efforts. According to my contention, there is no mental state which would not be the direct result of physical impressions, nor can there be any influence of mental efforts at a distance. This very experience with you has afforded me a striking illustration of the truth of my contentions. The other day I dreamt that I

AND MANUFACTURING CO. (Biel 7227) Nikola Tesla
Correspondence - 1888-1899

Folder 1083

Folder 19

Anderson, Leland - Archive and Manuscript Collections - Library of Congress - West House Electric
 MS 481
 and Manuscript No. 60, (Reel 7227) Nikola Tesla
 Correspondence - 1888-1899
 Folder 103
 Box 8
 Folder 19

125
 126
 INDEXED
 MICROFILMED

received from you a check for fifty thousand dollars, inclosed in
 a letter, the wording of which I cannot now exactly remember. I
 think, though, you stated that this sum was but a small compensa-
 tion for services I had rendered you during several years. I can
 distinctly recall that, among other things, you referred to my go-
 ing to all my wealth, friends and enlisting their interest on your
 behalf at a time when you were in adversity, and to my great help
 in connection with your enterprises at Niagara, Windsor and many
 other places, and if I do not err, judging from your statements,
 you seemed actually overwhelmed, not to say distressed, at the
 amount of your indebtedness to me.

Now, on awaking, I began to investigate the origin of
 this singular dream, which gave me much pleasure for a moment, and
 after carefully examining all the old shelves in my memory, I sat-
 isfied myself thoroughly that, in accordance with my views, every
 particular of this dream was suggested by events which had actually
 occurred. Naturally, I was greatly interested to see whether there
 was any truth in the doctrine of thought transmission, which my
 illustrious friend and some of his followers are now propounding.
 Of course, while of the opposite opinion, I could not ignore their
 views of such high authorities, and my interest gradually rose to
 the point of excitement as the 20th of February drew near. I was

Anderson, Leland - Richard and Manuscript Collections - Library at University of California, Berkeley
MS 481
AND MANUFACTURING CO. (Riel 7227) Nikola Tesla
Correspondence - 1888-1891
Folder 103
Box 8
Folder 19

126

126a



about at the height of my expectations, when your explanation of the First Nat., before referred to, reached me. Its contents left no room for a doubt in my mind, that there had been no thought transmission in this instance, and I was further strengthened in my view that the interrelation and equivalence of efforts, which Spencer so eloquently propounds in his "First Principles" and which literally apply to the material world, do not hold good for mental states.

The recognition of these important truths and unification of the several corollaries and deductions derived therefrom, will forcibly lead to the foundation of a new system of philosophy, extremely materialistic in its general aspects and characteristics, but highly useful for all practical purposes, when thoroughly comprehended and rigorously applied in all dealings and relations with our fellowmen. The current belief in the interrelation of efforts not demonstrable by material evidence, which has heretofore often formed the basis of verbal understandings and agreements, directly to the advantage of those whose emphasis is developed to a material degree of thickness, which is peculiar to a certain class of low mental capacity, known as crooks - will gradually disappear and will be finally restricted to those individuals who have a natural predisposition for the non-fulfillment of their ob-

MSA 481

127.
126



jects and desires in the various pursuits of life. It will become an absolute necessity for the furtherance of worldly interests and maintenance of friendly and harmonious relations to establish in advance exact, material and tangible equivalents for all our efforts and performances, and it will be soon recognized that close observance of these principles will be conducive to a great success, while ignoring them will, sooner or later, bring about a disastrous failure.

Apologizing that under the spell of these thoughts I have forgotten myself to dwell at length on this subject, possible of no interest to you, and calling your attention to the enclosed check for \$5,000.00, the receipt of which you will oblige me by acknowledging, I remain, with thanks,

Yours truly,

Enclosure.

AND MANUFACTURING Co., (Biel 7227) Nikola Tesla
Correspondence - 1888-1897
Folder 1 of 3
Folder 19

Westinghouse Electric & Manufacturing Company,

120 BROADWAY, NEW YORK, N. Y.

February 27th, 1899.

Nikola Tesla, Esq.,

#46 East Houston St., City.

Dear Sir:-

We have to acknowledge receipt of yours of the 24th inst. enclosing your check for \$6,090.00 to retire your note due on February 28th.

We therefore return you herewith your note of Nov. 30th, 1898: Your letter of November 30th addressed to the Tesla Company, and Your receipt of the same date, all of which we trust will reach you safely.

Yours truly,

G. W. Schaefer
Acting Vice President.

Enc.



1008.

Westinghouse Electric & Manufacturing Company,
Pittsburg, Pa.

Material Shipped 5/23/91 189 by Ad. Ex.

General Order No. D35740
Customer's Order No. 7408
Shipping Report No.

Nikola Tesla,
Alta Vista Hotel,
Colorado Springs, Colo.

Charge Mountain Elec. Co.,
Denver.



[Handwritten signature]

Gentlemen:

We have to-day shipped you goods packed as shown below. If B-L does not accompany this you may expect it in later mail.

Box No.

CONTENTS.

1738-S 1 - Single phase, A.C. motor complete, $\frac{1}{2}$ h.p., 100 V.
18000 alt.
F. #41153 A. #41285 S.O. 14673 - 80.

1739-S 1 - Pulley for do. 5 X 3 X 11/16".

1740-S 1 - Starting rheo. for above motor, D-3359 - #24950 -
S.O. 15117. (DETAIL)

Yours truly,

Westinghouse Electric & Manufacturing Co.

THE WESTERN UNION TELEGRAPH COMPANY

3:36 P.M.

East Pittsburg, Pa, June 28th.

Nickola Tesla, Colorado Springs

Telegram received. Have fifty kilowatt two hundred
to sixty thousand volt transformer already built three thous-
and or seventy two hundred alternations price eight hundred
dollars net cars factory.. Have nothing else to offer.

Westinghouse Elec. and Mfg. Co.

Ms. A.8.1

Correspondence - 1888-1891

Folder 1 of 3

Westinghouse Electric and Manufacturing Co.'s Telegram

June 28, 1899

Nickola Tesla

COLORADO SPRINGS, Colorado.

Telegram received. We have fifty kilowatt two hundred to sixty thousand volt transformer already built. three thousand or seventy two hundred alternations. price eight hundred dollars. net our factory. Have nothing else to offer.

Westinghouse Elec. and Mfg. Co.

CONFIRMATION

Correspondence - 1888-1899

Folder 1083

Folder 19

125

Westinghouse Electric and Manufacturing Co.'s Telegram

June 28, 1899

Nickola Tesla

COLORADO SPRINGS, Colorado

Telegram received. Transformer will require insulation
to seventy two hundred alternations.

Westinghouse Elec. and Mfg. Co.

CONFIRMATION



Correspondence - 1868-1899

Folder 1 of 3

Folder 19

201

THE WESTERN UNION TELEGRAPH COMPANY

East Pittsburg, Pa Aug. 24, 1899

Nickola Tesla, Colorado-Springs, Colorado

Telegram received winding should be opened at no five to
divide secondary for multiple connection half voltage all right.

Westinghouse Elec. and Mfg. Co.

3:43 P.M.

08-24-99



AND MANUFACTURING Co. (Reel 7227) Alaska Tesla
Correspondence - 1888-1899
Folder 182

127

Box 8
Folder 19

Westinghouse Electric and Manufacturing Co.'s Telegram

August 24, 1899

Nickola Tesla, Esq.

Colorado Springs, Colorado

Telegram received Winding should be opened at point No. five to divide secondary for multiple connection, half voltage. Insulation alright.

CONFIRMATION

WESTINGHOUSE ELEC. AND MFG. COMPANY

08-24-99



AND MANUFACTURING CO. (Reel 7227) Alaska Test
Correspondence - 1888-1897
Folder 1083

128

Box 8
Folder 19

NIKOLA TESLA CORRESPONDENCE --
JOHN PIERPONT MORGAN (Sr. & Jr.)
11/26/00 - 11/29/34
Xerographic prints from microfilm:
L/C microfilm Reel # 7227.

NIKOLA TESLA MUSEUM BEOGRAD-YUGOSLAVIA

MS 481

Archives, Letters, Manuscript Collections - Library of Congress - Nikola Tesla Collection

John Pierpont Morgan (Gr. 12.1) Box 8

CORRESPONDENCE
TESLA-MORGAN, JOHN PIERPONT

Library of Congress - Nikola Tesla Correspondence - John Pierpont Morgan (c. 1911)

Box 8

Anderson, Alfred - Nikola Tesla Manuscript Collection - MS 981

New York, Nov. 20th, 1900.
40 E. 43 East Houston St.



Mr. J. Pierpont Morgan,
Wall Street, New York.

Dear Mr. Morgan:-

Since last Friday, when I took the liberty to bring my project to your kind attention, I have carefully considered the facts and features, which seem to me essential and which, briefly stated, are as follows:

1. I have succeeded in perfecting methods and apparatus, which permit the transmission of messages to any distance without wires and make long and expensive cables, as a means of conveying intelligence, a commercial impossibility. These inventions render easily practicable the production and safe manipulation of electrical pressures up to a hundred million volts and movements of electrical energy measured by rates of amperes or thousands of horsepower, which are capable of bringing into action instruments at any point of the globe, no matter how distant from the transmitting station. Long practical experience with apparatus of this kind and exact measurements embracing a range of nearly seven hundred miles, enable me to construct plants for such telegraphic communication across the Atlantic and, if need be, across the Pacific Ocean, with the fullest assurance of success.
2. I have devised means for operating separately a great number of instruments without mutual interference, and can guarantee the absolute privacy of all messages.
3. Broad rights have been secured by me on these methods and apparatus in patents granted or allowed.
4. I am free and unhampered to enter into such agreements regarding the exploitation of these, and my future inventions in this field, as you might desire.
5. It could be my wish, subject to your approval, to identify my name with any corporation which might be eventually formed for the above purpose.
6. Although the development of these inventions has consumed years of effort, knowing that I have to deal with a great man, I do not hesitate to leave the apportionment of my interest and compensation entirely to your generosity.

Adams, 2nd - Annual and Manuscript Collections - MS 481

Nikola Tesla Correspondence - John Pierpont Morgan (Gr. P.S.)

Box

HOZES
NIKOLE TESLA

7. The first necessity is the provision of a fund to cover the expenses of construction of two plants for trans-atlantic or trans-pacific communication.

8. With temporary buildings, the former would involve an expenditure of about one hundred thousand dollars, the latter approximately two hundred and fifty thousand.

9. The working capacity of the latter plants would be equal to at least that of four of the present cables; the pacific plants would do the work of more than eight trans-pacific cables.

10. Six to eight months would be necessary for the erection of the former, and the latter could be put in working order certainly within a year.

Being in the interest of the art, if not in my own, that you will earnestly consider this project, the realization of which is rendered quite easy by my inventions, I have the honor to be,

Yours very respectfully,

MS 481

Manuscript Collections - Library of Congress

Nikola Tesla Correspondence

John Pierpont Morgan (Gr. 151)

Box 8

New York, Dec. 10th, 1900.
46 & 48 East Houston Str.



Mr. J. Pierpont Morgan,
23 Wall Street,

New York City.

Dear Mr. Morgan:-

Appreciating the immense value of your time and also the weight of circumstantial reasons, I have withdrawn more or less hastily last Friday, preferring to make a few condensed statements at long distances which, with a small effort on your part, will put you in the possession of that knowledge, which I have myself gained only after a long and exhaustive study of the questions involved.

1. A casual remark you made the other day, showing that you have been somewhat impressed by newspaper reports, skillfully circulated, but without foundation in fact, prompts me to quote one of many acknowledgments of my pioneer work, from a letter of Prof. A. Slaby, Privy Counsellor of Germany: "I am devoting myself since some time to investigations in wireless telegraphy which you have first founded in such a clear and precise manner"--- "It will interest you, as father of this telegraphy, to know," ---

2. Apologizing for this digression, which I would have avoided had I not thought it necessary to illuminate the situation, I beg you to bear in mind, that with my patents in this still virgin field, should you take hold of them, you will command a position which, for a number of reasons, will be legally stronger than that held by the owners of Bell's telephone inventions or by those of my own discoveries in power transmission by alternating currents.

3. For not only have I secured broad rights on the fundamental features and elements of the system, but I have also patented, independently at the same time, methods and appliances for the production of powerful oscillations, which are universally identified with my name, and without which a wireless transmission to very great distances and individualization of messages are not practicable. The necessity of substantiating my statements compels me to cite my illustrious friends, Lord Kelvin and Sir William Crookes. The former says: "This is a wonderful development of the induction coil and destined to be of great importance;" the latter: "The performance of your machine is marvelous."

4. The legal position is rendered still more secure by my inventions of entirely novel methods for receiving as well as for individualizing the messages, with which none now known has the remotest chance of competing, and which are likewise patented.

MS 481

Manuscript Collections - Library of Congress - John Pierpont Morgan (Gr. P. J. C.) Box 2



5. Furthermore, I have secured rights on improvements of a wholly different nature, applicable to any system and offering such advantages that any of them would be sufficient to exclude competition.

6. Then again, I have made certain scientific discoveries, which in themselves are of transcendent importance in wireless transmission to great distances, which I chiefly contemplate, and which offer such unprecedented chances in commercial exploitation, that they deserve your fullest attention.

7. Without endeavoring to give you more evidence of this kind, I venture to state - not without apprehension of being misunderstood by you - that you have a further guarantee of success in my extensive experience and ability acquired through years of experimentation with electrical vibrations, of which my co-workers will give you testimony.

8. Besides in this country, I have protected myself, though not quite so completely, in England, Victoria, New South Wales, Austria, Hungary, Germany, France, Italy, Belgium, Russia and Switzerland.

9. In view of the intense activity in this field it is desirable, that I should be placed without delay in a position enabling me to turn to profit my advanced knowledge and to secure patents on features which, though of less moment now, may soon become important.

10. Before going further permit me to remind you, that had there been only faint-hearted and close-fisted people in the world, nothing great would have ever been done. Raphael could not have created his marvels, Columbus could not have discovered America, the Atlantic cable could not have been laid. You, of all, should be the man to embark boldly in this enterprise, only, stemming hazards, prompted by superior insight as well as desire to advance an art of inestimable value to mankind.

11. Coming to the financial question - please remember: These inventions, - the results attainable only by their means - which now I alone am able to accomplish, - in your strong hands, with your consummate knowledge and mastery of business - are worth an incalculable amount of money.

12. Although I have expressed myself in my last letter, I will be more explicit relative to my share and compensation. The control is yours, the larger part is yours. As to my interest - you know the value of discoveries and artistic creations - your terms are mine.

Nikola Tesla Personal Papers
Donor: Herbert Marcantoni (Sr. P. 1-1)



13. Referring to your remark about the state of affairs in England, the acceptance by the Postoffice of the Martzian system which, by the way, is of no practical value, since it does not permit transmission to great distances and selective signalling, would, if anything, help my invention. And if the Government should adopt certain modifications, which are in line with my system, I would be again in a good position. I have, however, even assurance from England, France and Belgium, that I shall have no difficulty whatever to place my system everywhere.

Yours very respectfully,

Nikola Tesla
John Pierpont Morgan (Gr. P. L. 1)

[illegible]

Library of Congress - John Pierpont Morgan (Gr. 10 Jc.)
Nikola Tesla Correspondence Box

[illegible]

~~unlike, not~~ ~~the~~ ~~other~~

Handwritten signature or scribble.

Handwritten text, likely bleed-through from the reverse side of the page, including the word "C" and some illegible markings.

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 3. 1/2
 4. 1/2
 5. 1/2
 6. 1/2
 7. 1/2
 8. 1/2
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 12. 1/2
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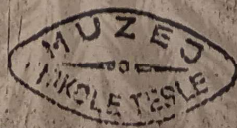
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July 21 1908
Dear Sir
I have the pleasure
to acknowledge the receipt
of your letter of the 19th inst.

and in reply to inform you
that the same has been
forwarded to the proper
authorities for their consideration.

I am, Sir, very respectfully,
Yours truly,
John Pierpont Morgan

Very truly yours,
John Pierpont Morgan

Enclosed for you are
two copies of the report
of the committee on the
subject of the proposed
amendment to the
constitution of the
Institution.

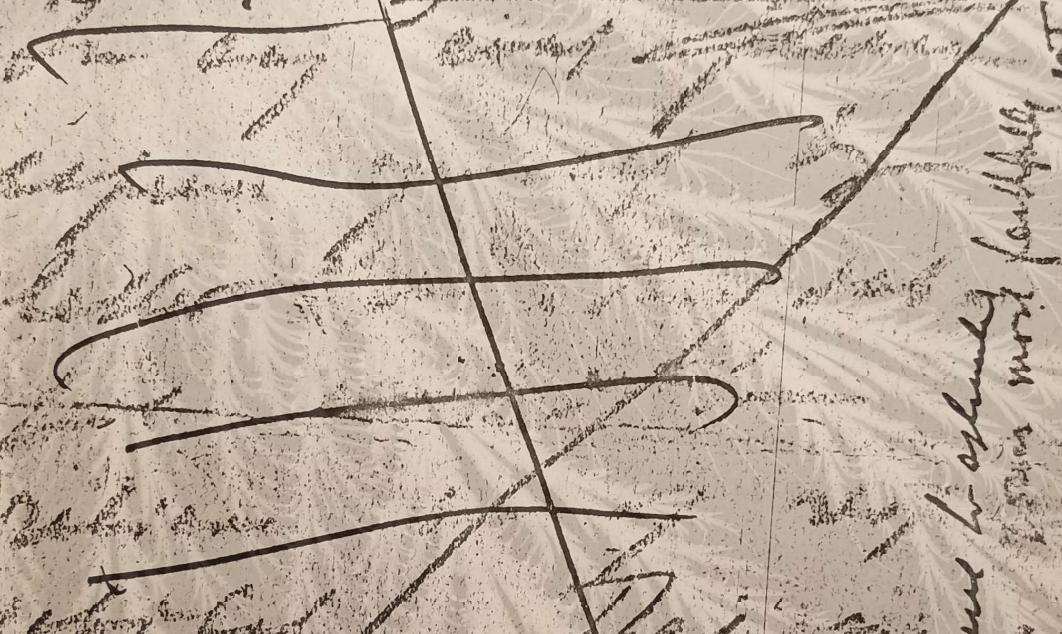
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MUSEUM
OF
THE
INSTITUTE
OF
ARTS
AND
LETTERS

Nikola Tesla Correspondence
John Pierpont Morgan (J.P.M.)
Box 8

with the love

Don't let the
2nd thing be
7th thing be



It's all very well
enable me to say
This is it. Remember
then you'll be killing yourself
the more you work
study is the absolute control

of a value different to ordinary
things most carefully
will you understand
the 7th thing
is of a value different to ordinary
things most carefully

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Nikola Tesla Correspondence
John Pierpont Morgan (1857-1913)
Box 8

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The Waldorf-Astoria
New York.

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to provide an strong

There are a number of
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influence to be seen

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the whole of the country

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Nikola Tesla Correspondence
John Pierpont Morgan (Sr. P.J.M.)
Box 8

MS 481

Library of Congress - John Pierpont Morgan (Gr. 15.1) Box 8
Nikola Tesla Correspondence

~~Handwritten text, mostly crossed out with a large X.~~





The Waldorf-Astoria
New York.

X For instance the two patents I
saw in the country on the
method of apparatus for under-
mining which have cost
for great expense, but they
are costing L. 6000 revenue
million dollars, as yet we see
The foreign patents are
heavy burden

You are understood from 3
from construction but for
the time being I need but
one plant to connect all
the central exchanges, telephone
cables or any other kind in a
common system of wires for
for simple & inexpensive
transmission. All the
can be done in a few
days after the plant is
put in operation.

Yours faithfully



MS 481

Nikola Tesla Correspondence

John Pierpont Morgan (Gr. B. 5. 1)

Box 8

Dec. 12. 1900.



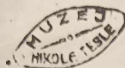
How can I begin to thank you
for the sense of my profession and
my own, great, generous sense! My work
will proclaim loudly your sense to the world!

You will soon see, that not only am
I capable of appreciating deeply the
nobility of your action, but also of
making your primarily philanthropic
investment, worth a hundred times the
sum you have put at my disposal
in such a magnanimous, princely way!

With very, very wishes, from all my heart,
for your happiness and welfare believe me
ever yours most faithfully,
N. J. P. Morgan N. Tesla
Ct.

Copy of letter
forbidden

Nikola Tesla (continued)
John Pierpont Morgan (N. J. P. M.)
19



STATEMENT

Relative to the cash expended by J. P. Tesla
inventions to be introduced up to Jan. 1, 1901.

According to bills on file:

To general expenses, cost of patents and construction of model machines to be introduced -----	148,466 13
To wages of assistants -----	123,604 05
To work in Colorado -----	10,000 00
To interest accrued April 10, 1900 -----	50,500 00
To interest accrued May 1, 1900 -----	50,122 27
Total amount of cash expended by J. P. Tesla	\$ 482,692 50

Library of Congress - Nikola Tesla Correspondence - John Pierpont Morgan (Gr. 151)



S. V. A. T. E. M. F.

Relative to the cash expended by the Government in the construction of the canal, 1, 1801.

ACCOUNT OF BILLS ON FILE:

1. To the cost of the canal, 1, 1801	148,466 13
2. To the cost of the canal, 1, 1801	123,604 05
3. To the cost of the canal, 1, 1801	16,000 00
4. To the cost of the canal, 1, 1801	50,500 00
5. To the cost of the canal, 1, 1801	50,000 00
Total amount of cash expended by the Government	408,570 18

J.P. MORGAN & CO.
Wall St. Corner Broad.
New York.

DREXEL & CO.
Philadelphia.

MORGAN, HARJES & CO.
Paris.

New York, February 18th, 1901

Nikola Tesla, Esq.,

46 East Houston Street, New York.

My dear Mr. Tesla:-



I enclose draft of a letter which I think covers the arrangement you talked of with Mr. Morgan. If you will write him such a letter as this and send him at the same time assignments of the fifty-one per cent. interest in the various patents, he can confirm the understanding by letter and that will complete the arrangement. I have showed this to Mr. Morgan and he thinks it is allright.

Yours very truly,

John Pierpont Morgan

MS 481
Nikola Tesla Correspondence
John Pierpont Morgan (Gr. P. 1) 108

New York, Feb. 10th, 1901.
40 & 42 East Houston Str.



Mr. Charles Steele,

Care Messrs. J. P. Morgan & Co.,

23 Wall Street, N. Y. City.

1 Dear Mr. Steele:-

On receipt of your kind note of Feb. 10th, with formal letter to Mr. Morgan, confirmatory of our verbal understanding, I called on you last Saturday, but learned that you were engaged.

I need scarcely say that I would sign any agreement approved by Mr. Morgan, but I believe that there exists a misunderstanding in regard to my system of lighting, which is not included in the original proposition.

I have been engaged in perfecting it since a number of years and believe that it will create an industrial revolution. The inclosed excerpts from a business program which I have been circulating will give you an idea of this invention, while the appended statement relative to the cash expenditures I have incurred, and which is of a secret nature, will bear out the fact, with which you are doubt familiar, that it takes, apart from other things, **capital to develop valuable inventions.** Of this one, while it has been said of course I am proud, knowing that the world will be grateful to me for it. I am well aware of its great commercial value, but any sum, however large, which I might obtain from other people, would be considered scarcely more than a fortune, as compared with the honor and distinction which I would feel in being associated with Mr. Morgan. Just as soon as practicable, I shall show it to him and have him place it on his own terms.

Under inclosure placed find my letter, in all respects the same as you have suggested, with the exception of the allusion to the assignment which, I hope, will be found just and agreeable to him.

Some of our friends concerned in our association have been in a position, in which, besides myself, Col. Autor is interested and which I control. It will be necessary for me to comply with a formality before making the assignments. I shall attend to this matter at the earliest possible moment.

With assurances of my personal sympathy, which has been afforded in our short conversation the other day, I remain,

Yours sincerely,

Incls. (Kindly return at your convenience.)



TESLA'S "ARTIFICIAL DAYLIGHT".

In order to convey an idea of the great commercial possibilities of this invention, attention may be called to a few facts, of which the general public has little knowledge. A common impression is that the electric lighting systems, as now commercially introduced, are a vast advance over older methods of illumination, leaving little room for improvement. This is far from being so, as usually but a fraction of one per cent. of the total energy consumed is obtained in the form of light, all the rest being dissipated in invisible rays, of no value for the purpose. When considering that hundreds of millions of dollars are invested in the United States alone for producing light in these crude ways, the importance of a radical advance in this field will be appreciated.

The present systems, however, are not only wasteful, they are also inseparable from other disadvantages as, the large cost of installation, which is chiefly due to the great quantity of copper required; the frequent renewal of the lamps, owing to their unavoidable deterioration; the disagreeable character of the light which, coming from a small surface, is naturally too intense and detrimental to the eyesight; the necessity of employing more or less opaque screens, which involve a considerable loss in illuminating power, and many other drawbacks of this nature. It is true, that recently Nernst and others have secured some gain in the efficiency of incandescent lamps or burners by the use of coatings of rare oxides, which permit higher degrees of incandescence. But this departure has not done away with the objectionable features above mentioned, on the contrary, it has only added to them.

In Tesla's new lighting system all these disadvantages are successfully removed. The light is produced with a much smaller expenditure of energy, scarcely more than one eighth of what is presently consumed for the same quantity of light, it is



soft and agreeable to the eye, closely resembling daylight, and the cost of the copper conductors is much less. Still better results as regards economy are, however, realizable with this kind of light and are sure to be reached soon in the course of its introduction. The lamps are very simple and ornamental and can be manufactured cheaply, need never be renewed and, what is very important, it has been ascertained in long experience that their rays have, like those of the sun, certain germicidal and sanitary properties, so that their use in dwellings will become imperative.

Referring particularly to street-lighting and illumination of public places, Tesla's system offers features of an ideal character. The lamps may be of any desired candlepower and may be adapted to any kind of current of supply, and they last indefinitely. The plant is cheaper and more economical and, owing to the softness and diffusive character of the light, the illumination is incomparably better. In view of this it is highly probable, that the arc-light will be driven out of the market entirely, being unable to compete.

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J. R. MORGAN & CO.
Wall St Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, HARJES & CO.
Paris.

New York, February 25th, 1901

Nikola Tesla, Esq.,

48 East Houston Street, New York.

My dear Mr. Tesla:-

I have showed Mr. Morgan your letter of the 18th instant, and he would like to see you on the subject before reaching a conclusion. Would you kindly drop in at your convenience.

Yours very truly,

John Pierpont Morgan

MS 481

Archival and Manuscript Collections

Library of Congress

Nikola Tesla Correspondence

John Pierpont Morgan (Gr. B. J. R.)

Box

New York, Feb. 25th, 1901.

68 East Houston Str.



Mr. Charles Steele,

Messrs. J. P. Morgan & Co.,

23 Wall Street, City.

My dear Mr. Steele:-

I have just received your kind letter and accordingly
will call to-morrow, hoping to find Mr. Morgan disengaged.

Yours sincerely,

Adams, Ireland - Ireland and Manuscript Collections - Library of Congress - John Pierpont Morgan (Sr. & Jr.)
MS 481
Nikola Tesla Correspondence - 1888-1901

400

The Waldorf-Astoria, New York,

April 6th, 1900.



378

Dear Mr. Morgan:-

Please accept my best wishes for a happy journey.

The books I forward are great, but a thousand libraries of such books will not be valued in a few years from now the article I inclose.

Yours most faithfully,

N. Tesla.

J. P. Morgan, Esq.

Copy.

Nikola Tesla Correspondence - 1890-1900
John Pierpont Morgan (Jr. P.J.C.)
Box 2

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TESLA LABORATORY,
Wardenslyre, Long Island, N.Y.

July 22nd, 1900.

J. P. Morgan, Esq.,

New York City.

Dear Mr. Morgan:-

I hope the unfortunate misunderstanding, the cause of which I have been vainly trying to discover, will be so soon cleared up that you will recognize that my work is of the kind that should go into history and worthy of your support. My plans here, when completed, will enable you to talk from your office to any part of the world as clearly and distinctly as across your table, and it will make possible the transmission of telegraphic messages to all points of the globe with a speed and precision surpassing by far those practicable through wires, and the capacity of transmission will be greater than that of the entire cable system of the world combined. What is still needed can now be very closely estimated. Three months would suffice to complete the work, which has now been cruelly delayed for eighteen months. If you will aid me to the end, my country will be grateful to you.

Yours most faithfully,

Nikola Tesla Correspondence - 1900-1901
John Pierpont Morgan (Sr. P.J.)
Box 8

New York, March 1st, 1901.
46 & 48 East Houston Str.



J. P. Morgan, Esq.,
23 Wall Street,
New York City.

Dear Sir:-

For several years past I have been engaged in perfecting a system of electric lighting and in carrying on investigations relative to wireless telegraphy and telephony, and I have made certain discoveries and inventions in connection with these subjects, for which patents have been issued to me in the United States and also in foreign countries.

I am anxious now to construct the apparatus necessary for putting my discoveries and inventions to practical use and for continuing my investigations on the subjects named.

For this I desire to procure the sum of

and I hereby agree that if you will advance such sum to me as hereinafter stated, I will assign to you an interest of fifty-one per cent. in all of said patents and inventions, and also in any patents or inventions which I may hereafter secure or make having relation to or being useful in any way in connection with electric lighting and wireless telegraphy or telephony. Such sum of

is to be paid to me from time to time on my submitting to you proper vouchers for expenditures made by myself in connection with the subjects above mentioned.

Understanding that you are prepared to accept this offer, I herewith hand you assignments of an interest of fifty-one per cent. in the patents designated upon the schedule hereto annexed, and if, as and when, any other or further patents for inventions relating to or useful in electric lighting, wireless telegraphy or telephony shall be secured or made by me, I agree forthwith to assign to you a like interest of fifty-one per cent. therein.

Will you kindly confirm this understanding by letter.

Very respectfully yours,

Nikola Tesla

New York, March 1st, 1901.
46 & 48 East Houston Street.



J. P. Morgan, Esq.,
25 Wall Street,
New York City.

Dear Sir:-

For several years past I have been engaged in perfecting a system of electric lighting and in carrying on investigations relative to wireless telegraphy and telephony, and I have made certain discoveries and inventions in connection with these subjects, for which patents have been issued to me in the United States and also in foreign countries.

I am anxious not to construct the apparatus necessary for putting my discoveries and inventions to practical use and for continuing my investigations on the subjects named.

For this I desire to procure the sum of ONE HUNDRED AND FIFTY THOUSAND DOLLARS (\$150,000.), and I hereby agree that if you will advance such sum to me as hereinafter stated, I will assign to you an interest of fifty-one per cent. in all of said patents and inventions, and also in any patents or inventions which I may hereafter secure or make having relation to or being useful in any way in connection with electric lighting and wireless telegraphy or telephony. Such sum of ONE HUNDRED AND FIFTY THOUSAND DOLLARS (\$150,000.) is to be paid to me from time to time on my submitting to you proper vouchers for expenditures made by myself in connection with the subjects above mentioned.

Understanding that you are prepared to accept this offer, I herewith send you assignments of my interest of fifty-one per cent. in the patents designated upon the schedule hereto annexed, and if, as and when, any other or further patents for inventions relating to or useful in electric lighting, wireless telegraphy or telephony shall be secured or made by me, I agree forthwith to assign to you a like interest of fifty-one per cent. therein.

Will you kindly confirm this understanding by letter.

Very respectfully yours,

J. P. MORGAN & CO.
Wall St Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, HARJES & CO.
Paris.

New York March 4th, 1901.

190



Nikola Tesla, Esq.,

46 East Houston Street, New York.

Dear Mr. Tesla:-

I have talked with Mr. Morgan regarding the form of your letter, and it is satisfactory to him to have the sum of \$150,000 filled in.

Will you kindly have the letter completed in this respect and Mr. Morgan will confirm it at once.

Yours faithfully,

John D. Smith

CORRESPONDENCE - 1900-1901

New York, March 5th, 1921.

40 & 42 East Houston St.



Mr. Charles Steele,
33 Wall Street,
New York City.

My dear Mr. Steele:-

Under inclosure I forward my formal letter to Mr. Morgan, filled out and signed as requested.

On this occasion I would tender my assurances of esteem and gratitude and also express the hope, that in a time not distant I may be able to prove myself worthy of the confidence he has placed in me.

Now, that all danger of conveying a wrong impression to Mr. Morgan is removed by his kind acceptance of my proposal, I would call to his attention, that I consider my intellectual patents on methods and apparatus for the wireless transmission of energy as the most valuable patents of modern times and, as to my system of lighting, I am convinced, that it constitutes one of the most important advances and is of enormous commercial value.

Yours very sincerely,

J. P. MORGAN & CO.
Wall St. Corner Broad.
New York.

DREXEL & CO.
Philadelphia.

MORGAN, HARJES & CO.
Paris.

New York, March 5th,

1901



Nikola Tesla, Esq.,

46 East Houston Street, New York.

Dear Sir:-

I beg to acknowledge receipt of your letter of the 1st instant together with assignments of an interest in various patents as shown upon the schedule and assignments handed me therewith, and to confirm the understanding therein expressed.

Very truly yours,

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190

New York, March 7th, 1901.

46 & 48 East Houston Str.



J. P. Morgan, Esq.,

25 Wall Street,

New York City.

Dear Mr. Morgan:-

I beg to acknowledge the receipt of your letter
confirming our understanding.

It is one of my warmest wishes, that your investment
would prove financially as profitable as it has been generous.

With much thanks, believe me,

Ever yours most faithfully,

New York, August 8th, 1901.
46 & 48 East Houston Street.



J. P. Morgan, Esq.,

23 Wall Street,

New York City.

Dear Mr. Morgan:-

I beg to submit herewith a statement relative to the patents and applications partly assigned to you last March, which is self-explanatory.

In a short time I expect to be able to report satisfactory progress along the two lines specifically mentioned in our agreement.

Hoping in the interest of this country and the world at large for the conservation of your precious energies, I remain,

Yours most faithfully,

New York, N.Y., Oct. 1, 1911.
 Mr. J. P. Morgan, Esq.,
 33 Wall Street,
 New York City.



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 102

J. P. Morgan, Esq.,
 33 Wall Street,
 New York City.

Dear Mr. Morgan:

1. I respectfully apologize for disturbing you at a time when your mind must be filled with thoughts of a more serious nature than usual.
2. My efforts are now centered upon that element of the wireless transmitting, on which the effects at distance chiefly depend.
3. The transmission of energy by my system is exceptional in this respect, that a small increase in the power gives a much greater increase in the performance of the beam.
4. On the basis of my estimates which I have already made, I may expect it to be about 100 miles from New York, but, if the power is doubled, the distance referred to be doubled, the beam will be able to convey messages across the Pacific Ocean, or across the Atlantic, and if the power be tripled, it will be able to convey signals to any point of the globe, no matter what the distance.
5. As to my belief, of course I believe in it, I do not believe on any word that, were the technical difficulties thousand times greater than they actually are, I could still be certain of the result, if the limitations of distance were removed.
6. I do not state this with the object of inducing you to give anything to your exemplified generosity, but merely to acquaint you with a positive and unquestionable fact of scientific importance.
7. What I contemplate and what I can accomplish, according to my plan, is not a simple transmission of messages without wires to great distances, but it is the transformation of the entire globe into a sentient being, as it were, which can feel in all its parts and through which thoughts may be flashed through a brain.
8. Consider that from one single plant I can extract, at the same time, - not a hundred, or a thousand, or even a million, but thousands of trillions - a practically infinite number - of instruments, each costing no more than a few dollars, scattered all over the globe.

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9. Only two power plants, one located, say, on the old Continent, and the other in America, can transmit more messages than millions of the present cables working continuously at full capacity, and this would be true even if the working capacity were increased a thousandfold.

10. You only need to realize this great truth to at once recognize, that as a means of conveying general knowledge the cables are absolutely and hopelessly doomed. They may be employed for special purposes, but not for the distribution of general news.

11. Here is a result, Mr. Morgan, of overcoming humanitarians as well as financial importance, worth of your energies, and one that would give you a new hold on the world, which has been already benefited so much by your genius and activity.

Mr. Huxley, too, that however much a distinguished world in completing this great work, an equal distinguished world find in telling the whole world that it is your work that is done.

With expressions of admiration and sincere belief,

Ever yours most faithfully,

1000 Correspondence - 1900-1901

40 & 40 East Houston Street,
New York, Nov. 11th, 1901.



J. P. Morgan, Esq.,
23 Wall Street,
New York City.

Dear Mr. Morgan:-

Under inclosure please find assignment of patents which were granted to me recently and which fall under the terms of our agreement. They cover certain new departures in the transmission of electrical energy through natural or artificial channels, and its utilization for various purposes. I am securing the rights in some of the foreign countries.

Pardon me for trespassing on your valuable time in order to give you, on this occasion, in the fewest words a clear idea of the bearing of my patents relative to energy transmission so far assigned.

Any problem of this kind will present itself to you in three aspects - first, the production of the energy; second, its transmission, and third, its utilization at the distant point.

As to the first, my patents cover novel methods and apparatus for the production of electrical effects of virtually unlimited power, not obtainable in any other ways heretofore known.

In regard to the second my inventions cover the only practical and economical method of transmission by conduction through the earth with "tuned" circuits. They also cover new methods of transmitting great amounts of energy for industrial purposes without wire. The practical significance of my system resides, partially in the fact, that the effect transmitted diminishes only in a simple ratio with the distance, whereas in all other systems it is reduced in proportion to the square. To illustrate, if the distance be increased one hundredfold, I get 1/100 of the effect, while under the same conditions others can obtain, at the very best, only 1/10,000 of the effect. This feature alone bars all competition.

In regard to the third, there are only two ways possible of economically utilizing the energy transmitted for the production of qualitative effects: either storing it in dynamic form as, for instance, the energy of well-timed thrusts is stored in a pendulum, or b. accumulating it in potential form as, for example, compressed air is stored in a reservoir.



In the patents assigned last spring I have embodied the first, and in some of those now assigned the latter principle. My rights on both are fundamental.

Referring particularly to telegraph and telephony, I have still in the Patent Office two applications, one of which is allowed, while the other is about to be allowed. I have kept them back for a number of reasons. In one of them I describe and claim discoveries relating partially to the transmission of signals through the earth to any distance, no matter how great, and in the other a new principle which secures absolute privacy of messages and also enables the simultaneous transmission of any desired number of messages, up to many thousands, through the same channel, be it the earth or a wire or cable. On this latter principle I have applied for patents in the chief foreign countries. I consider these inventions of extreme commercial importance.

Hoping that I shall soon be able to satisfy you that your generosity and confidence in me have not been misplaced, I remain,

Yours very respectfully,

J. D. Morgan & Co.

Box 3036



New York July 11 1897

Nichols Seal & Co.
442 East 42nd Street
New York City

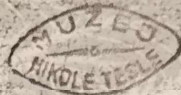
Dear Sir,

Mr. J. D. Morgan has
received your letter of
11th inst. with the
assignment of Patents
mentioned therein.

Yours truly,
J. D. Morgan & Co.
Per J. D. Morgan

J. P. Morgan & Co.

P.O. Box 3036.



New York Nov 11 1901

Nikola Tesla, Esq.
44 East Christopher St.
N.Y. City.

Dear Sir,

My J. P. Morgan has
received your letter of
11th inst. with the
assignment of Patents
mentioned therein.

Yours truly,
J. P. Morgan.
Private Secy



MUZEJ
NIKOLAJ TOLSTOJ

172

• J. Morgan, Esq.,

25 Voll. 8. 10. 11. 12.

1900

[illegible]

I remain, as ever,

YOUNG, J. S. 1911.

Morgan

Jan. 9 1902

... By the time my present plant is completed and I have made demonstrations to your satisfaction, all this preparatory work would be done and, should elect so, before the next winter the large plant could be put in operation. Now, Mr. Morgan, am I backed by the greatest financier of all times? And shall I lose great triumphs and an immense fortune because I need a sum of money? Is it not due to the honor of this country, that it be identified with this achievement. Have I not contributed to its greatness and prestige and have my inventions not exercised a revolutionary effect upon its industries. These are not my claims, Mr. Morgan, only my credentials.

46 & 48 East Houston Str.

C. B. Morgan, Esq.,
25 Wall Street,
New York City.

Dear Mr. Morgan: -

I have carefully examined the records and find that, in what the Marconi-Miles' syndicate has been doing, and a vestige of their old patented apparatus is left. Under instruction I secured a lot of extracts from technical papers, which have come to my attention, which you will greatly oblige me by attaching to the file. All the essential elements of these new systems, in general respects, of course, are broad, anticipated by my patents of 1896 and 1897 (which I look out in most of the civilized countries, Canada excepted) as methods for inducing the production of high frequency currents or oscillations and transmission of electrical energy without wires. For example, in transmitting impulses which constitute Morse code, the currents conveyed, not in thin wire coils, but through a coupling circuit or "inductor", a transformer circuit, both ends, as "Tesla coil" and "resonant inductor" type, the same "Tesla transformer", a system of coupled tuned circuits - a thermionic valve improved as a vacuum tube, etc. Just now, and at the present time its level, so every one will get here.

And so I am not to distract your attention from your
other matters. I find it impossible to do so. I will write you a
letter in view of the importance which is now being placed
on it. I am, for yours,

[illegible]

1884 Correspondence - 1900-1902

Prof. Aleksander Marconi, in his IEEE paper

"Nikola Tesla and the Wireless Transmission of Energy"

82 WM 202-0 (Feb. 1982) cited the name

Jan. 9, 1902.



317

318

I need not tell you that I have two or three years have
dared without colla sine. I have examined and improved hundreds
of expedients aiming at improvement in every way, and the attain-
ment of the best result with the capital at command, and I am glad
to say, that by slow and steady advances, I have managed to con-
struct a machine, with which I shall produce an electrical distur-
bance of sufficient intensity to be perceptible over the whole
earth. It will be feeble at some places and, I fear, unsuitable
for practical use, but I am sure that, when my apparatus is worked
in and in condition to deliver its maximum energy - at the rate of
one million horse-power with the final throw of the switch -
shall send a greeting to the whole world, and for this great tri-
umph I shall be forever grateful to you!

Being perfectly confident of this result, I have devised
a system of what I call "World Telegraphy", to which I have re-
ferred in one of my letters to you, and now for I am now preparing
a specification for a patent. The fundamental idea underlying this
system is to employ a few power plants, preferably located near
the large centers of civilization and each capable of transmitting
a message to the remotest regions of the globe. These plants are
to be connected by wires, cables and other means with the dis-
tributed centers nearby, and as fast as they receive the power, they
pass them into the ground, through which they spread instantly.
The whole earth is like a crust, and it here, and the capacity of
this system is infinite, for the energy received on every few
square feet of ground is sufficient to operate an instrument, and
the number of devices which can be so actuated is, for all practi-
cal purposes, infinite. You see, Mr. Morgan, the revolutionary
character of this idea, its civilizing potency, its tremendous
power-making power. Carried out successfully, it will do more, not
only with the cables, but with the transmitters also, for how can
journals as the present exist, when everybody can have his own ma-
chine printing in his own house, or even in his own room.

But more than this can be done with a system, and I cor-
dially expect what a beautiful invention, which I am now develop-
ing, will enable me to send our news in a tele home, and it will
be repeated loud everywhere in the tone of my voice. This, I now
tell you now, I have since long ago conceived as a means of dis-
tributing myself fittingly of my best to you.

The transmission of power without wire has been a prob-
lem, to which I have devoted a large portion of my energies since
ten years, and I have arrived at its solution in the manner of an
epochal discovery. If I pay these discoveries, they were not
of the nature of those which are stumbled upon, but like those
which are reasoned out. From the practical point of view there are
three distinct steps to be made. 1) The transmission of minute
amounts of energy and the production of feeble effects, a very per-

318 319.
447



ceptible by sensitive devices; 2) the transmission of notable
amounts of energy, displacing with the necessity of sensitive devices
and enabling the positive operation of all kind of apparatus
requiring a small amount of power; and 3) the transmission of power
by means of all industrial and domestic. With the completion of all
these operations, the first step will be made and the result
will be of great value to the world. But an incomparably greater
value will be the transmission of energy in practically unlimited
amounts, enabling at any point of the globe the positive operation of in-
numerable and advanced. All mechanical, conversion, printing,
etc. could be simultaneously effected in all parts of the earth,
and the effect of this on the advancement of humanity is beyond
reckoning. To be sure, a plant of five thousand horse-power
could be made. This power could be made at Niagara. The land
necessary for the plant could likewise be obtained there. The
cost of the plant, the land, the machinery, etc., etc. - all the
work involved, would not involve an expenditure of more than
one or two thousand dollars. The present plant is
1,000 and I have made arrangements for still greater. All
the work done would be done here, if you should want, so,
before the next winter the new plant could be put in operation.
Now, the Niagara, and I have the greatest discovery of all
time? and all I lose great things which would be
needed a lot of money. It is not only the fact that this
discovery has been made and it is a great thing. It is not
contributed to the progress of the world. It is not
exercised a revolutionary effect upon its affairs. These
are not my claims, Mr. Green, and my associates.

With the possession of motion in motion, believe me,

By your,

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St. Pierpont Bridge, New York.

TEMP. 105.00:-

[illegible]

24.11.1947, 32.02,

1900-1901. 1902-1903.



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592
New York, Sep. 5th, 1902.



Dear Mr. Morgan:-

Hoping that you may now have a free moment to spare, I venture to respectfully submit the following:

1. Under inclosure please find assignment of some foreign patents, chiefly relating to an invention, which I have mentioned in my earlier letters to you. In this country my fundamental rights are likewise assured on this beautiful principle which permits of an indefinite cheapening and unlimited extension of telegraphy and telephony through natural and artificial channels. Knowing your interest in scientific advances, I will attempt a simple explanation. We are able to receive numberless distinct impressions, because the controlling nerve fibres lend themselves to innumerable combinations, and we can distinguish an individual from all others by reason of a great many characteristic features which in no other individual exist, or if so, not in that particular combination. In this reside both the essence and virtue of the invention. The transmitter is not primitively characterized by a single note or peculiarity, as heretofore, but represents a very complex and, therefore, unmistakable individuality, of which the receiver is the exact counterpart, and only as such can it respond. To go a step farther, I make the operation of the receiving instrument dependent not only on a great number of distinctive elements in combination, but also on their order of succession and, if necessary, I go so far as to vary continuously the character of the individual elements. These latter refinements I shall introduce in the transmission to the most important centers of the world. You can see, how impossible it will be to intercept my messages or to interfere with them. With proper facilities for manufacture and technical assistance it is practicable to prepare instruments which would enable the transmission of ten thousand simultaneous dispatches through either the Earth or a wire.

2. Some time ago, finding that my inventions in the wireless transmission of energy and production of electrical oscillations had been boldly appropriated, I came to the conclusion, after carefully considering every course I could adopt, that the only way to fully protect myself was to develop apparatus of such power as to enable me to control effectively the vibrations throughout the globe. Now, if I had recognized this necessity earlier, I would have gone to Niagara, and with the capital you have so generously advanced I could have accomplished this easily. But, unfortunately, my plans were already made and I could not change. I endeavored once to explain this to you, much to my sorrow, as I impressed you wrongly. Nothing remained then but to do the best I could under the circumstances. My efforts will be in a large



measure rewarded, for by straining every part of my machinery to the utmost I shall be able to reach what I consider almost the maximum possible performance with the power available - a rate of energy delivery of ten millions of horse-power - more than twice that of the entire Falls of Niagara. Thus the waves generated by my transmitter will be the greatest spontaneous manifestation of energy on Earth. I believe I have told you in a previous letter, that in my system the strongest effect is produced at a point diametrically opposite the transmitter which, in this instance, is situated a few hundred miles off the western coast of Australia. The waves will be the weakest in the countries which are at a distance of about 6000 miles from here. It will be possible, however, to use the transmitter so that its effect will be exactly equal over the whole surface of the globe, but then it will be comparatively feeble, though the variation of potential will amount to fifty volts or more.

3. It is now imperative to provide facilities for manufacturing great numbers of receiving apparatus. These will be inexpensive, and there is virtually no limit to the number which I can operate from my plant. They could be placed wherever desired and could be actuated simultaneously or separately. For this purpose it would be necessary to connect the plant by wires with the New York Telegraph and Cable Offices. At first, of course, the replies would have to come through artificial channels, but if agreements were entered into with Cable Companies the scheme would be very profitable to all concerned for the following reasons:

a) revenue would be provided by charging for the wireless messages; b) the existing lines would have more to do; c) the public would be benefitted by increased convenience and cheapening of the rates, and d) there would be no opposition and friction.

4. Since your departure for Europe, Mr. Morgan, I have had time to reflect and to get a better knowledge of the importance and scope of your work, and I now see that you are no longer a man, but as a principle and that every spark of your vitality must be preserved for the good of your fellowmen. I have therefore given up the hope that you might aid me in establishing a manufacturing plant, which would enable me to reap the fruit of my labors of many years. But some ideas which I have not simply conceived - but worked out - are of such great consequence that I honestly believe them to deserve your attention. If you should wish it, I shall submit them to you, and in this hope I inclose a copy of an application filed by me in the U. S. Patent Office on the 16th of May, 1900. A perusal of the paragraph on page 4 may convince you that what I contemplate are not unrealizable projects of a visionary, but rational undertakings of an engineer.

592

593



5. The necessity of a factory with modern tools has compelled me to devote all the energy I could spare to this, and I have formulated a plan which has a fair chance of being put through. I only need your kind approval, assuring you that whatever attitude you may take, I have no greater desire than to prove myself worthy of your confidence, and that to have had relations, however distant, with so great and noble a man as you will ever be for me one of the most gratifying experiences and most highly prized recollections of my life.

With these sentiments and awaiting your pleasure, I am,
as ever,

Yours most devotedly,

584
New York, Sep. 17, 1902. 583
584



Dear Mr. Morgan:-

Complying at the earliest possible moment with your wish, I forward under inclosure: 1) a brief descriptive of the inventions to be introduced, outlining plan proposed and accompanied by list of patents; 2) a few of my patent specifications with technical comments, and 3) copy of letter to the subscribers, to whom similar papers are to be submitted.

I scarcely need say that none of those who are ready to take part in the enterprise and who are all people of high standing known of your interest, and that all pertaining to this transaction will remain among friends, strictly private.

As the Nikola Tesla Company, the owner of the patents, has incurred great expenses in perfecting the inventions, and as under this plan it would receive no reimbursement, it is proposed to sell a part of the bonds received by the Company for cash. I have thought it my duty to make the prospective subscribers understand this and no objection has been raised. This will enable me to refund the sum which you have in a generous spirit advanced, and as to your share in the whole property, it will be left entirely to yourself.

Of my own interest I intend to give away one quarter to an associate, in whose ability and integrity I believe, and who is to unite all of his energies with mine, to bring to the greatest possible success this undertaking, in which our honor will be engaged.

Hoping that there is nothing in this of which you would not approve, and assuring you of my deepest respect and gratitude, I remain, as ever,

Yours most faithfully,

J. P. MORGAN & CO.
Wall St Corner Broad.
New York.

DREXEL & CO.,
Philadelphia.

MORGAN, HARIES & CO.
Paris.

New York, Sept. 24th, 1902

Nikola Tesla, Esq.,



40 East Houston Street, New York.

Dear Mr. Tesla:-

Will you kindly drop in and see me in the next day or two about
the matter concerning which you wrote Mr. Morgan.

Yours very truly,

John D. Rockefeller

J.P. MORGAN & CO.
Wall St. Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, HANES & CO.
Paris.

New York, October 21st, 1902



Nikola Tesla, Esq.,

46 East Houston Street, New York.

Dear Mr. Tesla:-

I understand the plan of your proposed electrical company to be as follows:

The company is to acquire all your patents of which you spoke to me and will be capitalized as follows:

Bonds,	\$5,000,000
Preferred stock,	2,500,000
Common stock,	2,500,000

It is intended that the company should go into the manufacture of the various devices covered by your patents and for this purpose it is proposed to raise a working capital of \$2,500,000 by the sale of bonds \$2,500,000, preferred stock, \$1,250,000, common stock \$1,250,000. The present Tesla Company, which includes yourself and associates, is to receive 40% of the new capitalization, viz:


\$2,000,000 bonds
1,000,000 preferred stock,
1,000,000 common stock,

so that there will remain in the treasury of the new company,

\$500,000 unissued bonds,
250,000 preferred stock,
250,000 common stock.

I understand your suggestion to be that of the securities which go to yourself and associates, a certain amount will be used to provide

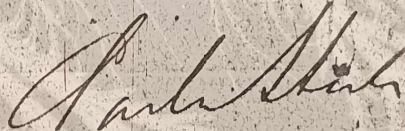
Nikola Tesla, Esq., 2.

cash required to reimburse the advances which have been made to you and the balance will be divided among yourself and associates. 

I have discussed the suggestion with Mr. Morgan and it is in substance agreeable to him. As to the amount which he should receive out of the balance of securities remaining after providing for reimbursement of advances, he does not understand the facts fully enough to decide. If he understands the principal patents to be acquired by the company are those in which he held an interest of 51%, he thought that possibly it would be fair to give him about one-third of the securities.

I should be glad to know what you think of this.

Yours faithfully,





207
602
603

New York, April 30th, 1903.



Dear Mr. Morgan:-

I would respectfully report, that I have secured ~~several~~ U. S. Patents on the important principle repeatedly referred to in my previous letters to you. There were four contestants in the Patent Office, but all came too late and my broad claims have been granted in their entirety and without the slightest restriction. This invention in itself makes it impossible for others to compete with me in the lines of my present endeavors, as it secures perfect privacy of the messages and permits the simultaneous transmission of virtually any desired number of them without interference. These improvements are, of course, being embodied in my plant at Wardenclyffe, and will enable me to communicate intelligence to any part of the globe, irrespective of distance, with the same precision and exclusiveness as through a private wire.

I am carefully watching the wireless speculators, who since I began this work have quietly abandoned their processes and appliances, which precluded the possibility of signalling to any considerable distance and with precision, and have appropriated my patented methods and apparatus, with which every blacksmith and woodchopper can send reliable messages to great distances. As I have told you, I have these people in my pocket. Their doings are so manifest a departure from all rules of fairness, that they are bound to collapse. My attorneys, Messrs. Page & Cooper assure me, however, that I shall have no difficulty in shutting them up.

It is my hope, Mr. Morgan, that nothing has occurred to slight me in your appreciation, which has always filled me with a sense of great honor and satisfaction. I recognize the fact, that I should have reached some practical results before expending so much money, but under the circumstances it was impossible.

First of all, you have raised great waves in the industrial world and some have struck my little boat. Prices have gone up in consequence - twice, perhaps three times higher than they were. Then there were expensive delays, mostly a result of the activities you have excited. The special machinery I needed I obtained only after nine months of promise, and I had literally to beg for it. Then again, I had a great number of patents to work and to maintain. This took a considerable sum of money, for which no provision whatever was made. Furthermore, as in every technical project, unforeseen difficulties presented themselves, causing trouble, delay and expense. But as I examine all my work to-day,

602

New York, April 3th, 1903.



Dear Mr. Morgan:-

I would respectfully report, that I have secured ~~many~~ U. S. Patents on the important principle repeatedly referred to in my previous letters to you. There were four contestants in the Patent Office, but all came too late and my broad claims have been granted in their entirety and without the slightest restriction. This invention in itself makes it impossible for others to compete with me in the lines of my present endeavors, as it secures perfect privacy of the messages and permits the simultaneous transmission of virtually any desired number of them without interference. These improvements are, of course, being embodied in my plant at Wardenclyffe, and will enable me to communicate intelligence to any part of the globe, irrespective of distance, with the same precision and exclusiveness as through a private wire.

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604



I feel and can conscientiously assure you, that I could not have done better in a single feature. Improved life may be possible, but they are beyond my knowledge and power. Two plants each at mine - one here and one in the Orient - can supply a load of ten thousand dollars & up.

Respectfully,

H. T. S.

604

New York, April 22, 1903.



603
605

Dear Mr. Morgan:-

My work is now in such shape that it can be completed in three months. I would then be enabled to transmit at low cost absolutely reliable private communications to any part of the world, and what this means I need not say.

You have, offered me a noble prize at a time when Edison, Marconi, Papin, Fleming and many others openly ridiculed my undertaking and declared its success impossible. What has happened, Mr. Morgan, that just at present, when I am more than ever deserving your support, you should hesitate? I am a century ahead in my art and my patents cover the only practical means and methods for the transmission and individualization of telegraphic and telephonic messages without wires. With these patents you can control inventions which will create a revolution such as the world has not seen before. Will you now let me go from door to door to humiliate myself, to solicit funds from some Jew or prospector and have him participate in that gratitude, which I feel for you?

Hoping for your health and welfare, I remain, as ever,

Yours most faithfully,

N. Tesla.

J. P. Morgan & Co.

P.O. Box 3036.

New York

July 3rd. 1903.



Nicola Tesla, Esq.,

Waldorf-Astoria,

New York, N. Y.

Dear Sir:-

Referring to your favor of even date, addressed to our Mr. Morgan, will you kindly call and see him on Monday, July 6th, in reference to the subject therein referred to

Yours truly,

J. P. Morgan & Co.

J. P. Morgan & Co.

P.O. Box 3036.

New York.

July 3rd, 1903.



Nicola Tesla, Esq.,

Waldorf-Astoria,

New York, N. Y.

Dear Sir:-

Referring to your favor of even date, addressed to our Mr. Morgan, will you kindly call and see him on Monday, July 6th, in reference to the subject therein referred to?

Yours truly,

FORM 699

RECEIVED AT

THE PUBLIC TELEPHONE OFFICE.

TIME 2:27 M

190

To

Mr. Tesla



*Mr. J. P. Morgan has
written you wishes
to see you at
his office on Monday
morning*

Call Received from Telephone No. _____

Copy.

581

July 3, 1900



400
582

Dear Mr. Morgan:-

Under inclosure I forward an illustration of my system relating to the principle referred to in my paper of 1900. Every body who respects these rights can appreciate the value of these favorable messages.

I also send a photographic view of my plant taken some time ago. The work has been carried on without interruption, but it is as up as close to a stop now as I can get it consistently with my dignity. I have expended \$130,000, which you have so generously invested and in addition \$35,000, which I obtained by sale of a personal property; besides I have borrowed \$10,000 from my bank and have a lot of bills to pay. Financially, I am in a dreadful fix. But if I can complete this work, I can readily show that by my wireless system power can be transmitted in any amount, to any desired distance and with high economy. Of the three hundred horse-power developed by my oscillator on Long Island two hundred and seventy-five, - perhaps a little more - can be recovered at the greatest distance in Australia. If I would have told you such as this before, you would have fired me out of your office. Now you see, Mr. Morgan, what I work for. I mean a great industrial revolution. It will be something worthy of your attention, as I have always assured you. There is no uncertainty about this, it is as absolute a fact as anything I know of electricity can be. My patents confer a monopoly. Will you help me or let my great work almost complete - go to pots?

Ever yours most faithfully,
N. Tesla.

J. P. Morgan & Co.

P.O. Box 3036

New York

July 17 1923

W. H. Allen, Esq.,
Quincy, Calif.



I have received your
letter of 16th inst. and
in reply would say that
I should not feel
disposed at present
to make any further
advances.

Yours truly,
J. P. Morgan

Morgan

J. P. Morgan & Co.

P.O. Box 3036.

New York July 17 1903

N. Tesla, Esq.,
City,

Dear Sir,



I have received your
letter of 16th inst and
in reply would say that
I should not feel
disposed at present
to make any further
advances.

Yours truly,
J. P. Morgan

1903

Michigan

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by

585

The Waldorf-Astoria, New York,

Sept. 21, 1903.



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586

Dear Sir:-

I hope I did not impress you as asking for a generous contribution to science. It was simply a business proposition.

My last undertaking had returned more than two dozen times the original investment and this, in strong hands, should do better still.

I had the same difficulty in convincing the world of the practicability of my invention referred to in the editorial inclosed. The present one is incomparably more important and valuable.

Apologizing for the intrusion, I remain,

Very respectfully yours,

N. Tesla.

Copy.

New York, Sept. 24, 1903.



585
587

Dear Mr. Morgan:-

There is no day without such notices as the inclosed.

All this power can be easily transmitted by my new patented processes almost without loss and to any distance. If you will give me your earnest support in this you can have a greater income from these inventions than Rockefeller from his oil-wells. And you will have at your mercy the cutthroats who are trying to undo your work and get your royal mantle. I only need to complete this plant, Mr. Morgan, the rest will take care of itself.

Yours most faithfully,

N. Tesla.

Copy.



587

The Waldorf-Astoria, New York,
Oct. 15, 1903.

Dear Mr. Morgan:-

Please excuse me for troubling you at this time when, much as you may disdain the small doings of your enemies, you must be deeply pained to see the progress of your great economic ideas retarded. But it is precisely for this reason that I beg you now to hear me.

I have never attempted, Mr. Morgan, to tell you even a hundredth of what can be readily accomplished by the use of certain principles I have discovered. If you will imagine that I have found the stone of the philosophers you will be not far from the truth. They will cause a revolution so great that almost all values and all human relations will be profoundly modified. These new developments do not concern any country in particular, but the whole world and they are in line with your own efforts. The commercial possibilities they offer are simply infinite, and you are the only man today who possesses the genius and power to compel the universal adoption of these ideas and that is why I approached you two years ago. If I am only aided to reach the first result - the most insignificant of those to which I allude, yet very valuable - to girdle the globe with wireless messages, you will become interested and convinced. With my present experiences and knowledge of the wonderful appliances identified with my name this task is so easy, that it is for me no effort at all.

I have had a long talk with Mr. Th. F. Ryan last night and he will see you in regard to providing the money still necessary. He is a great admirer and loyal friend of yours and for this reason as well as on account of his ability I am very anxious to enlist his cooperation. I have told him that one hundred thousand dollars will be sufficient to reach the first commercial results, which will pave the way to other and much greater successes. Knowing your generous spirit, I have told Mr. Ryan that any terms you may decide upon will be satisfactory to me.

Yours very respectfully,

N. Tesla.

Copy.

586
608

232
The Waldorf-Astoria, New York,

Dec. 7th, 1903.



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240

Dear Mr. Morgan:-

Will you permit me to call this or any other evening at your home and to bring a small instrument along to show you one or two experiments with my "daylight"? I merely wish to have the first honor, the shark who will probably come after me, will get the contract for lighting your home.

Yours most faithfully,

N. Tesla.

Tel. Waldorf.

Copy.

240

The Waldorf-Astoria, New York,

Dec. 11th, 1903.



Dear Mr. Morgan:-

Will you enable me to complete this work and show you, that you have not made a mistake in giving me a checkbook to draw on your honored house? It is my honest belief that I am a solitary ahead in the fields in which I am working, and that is just the trouble which confronts every pioneer. You see how your own advanced ideas are hampered.

My enemies have been so successful in representing me as a poet and visionary, that it is absolutely imperative for me to put out something commercial without delay. If you will only help me to do this, you will preserve a property of immense value.

As regards the wireless project, I beg to call again to your attention that my patents control absolutely all essential features and that my work is in such a shape, that whenever you tell me to go ahead I shall shake the globe within three months, as surely as my name is Tesla. I have promised the St. Louis Exposition people to open the door of the Exposition with power transmission easily do it, but if you do not aid me soon it will be too late. Please think for a moment what this means for me. What I have told you long ago has happened. My competitors have collapsed, since wholesale appropriations as they have attempted do not go. Now is the time to aid me, you know this better than anybody else.

Yours most faithfully,

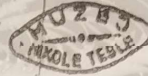
N. Tesla.

Copy.

593

600.

601



Dear Mr. Morgan:-

Since many years I have known on your character intimately. I believe that in my first approach to you I have given you evidence of this knowledge but I do so today. You have already put aside the money necessary to complete the work begun, in your thoughts, and that is as good as done. But I did not understand you as a business man until lately.

I have worked for results carrying with them a dignity and force such as to deserve your attention. What you wanted was simply a result. Now, Mr. Morgan, will you let me profit by this later knowledge and give me an opportunity to rehabilitate myself in your opinion as a business man? I need only a little ready capital to put some of my devices on the market. They will bring immediate returns. Will you make me an advance for this purpose and to preserve what I have already developed with so much pain, on any terms you choose?

Yours most faithfully,

(no date)

Copy.

600
602

601



Dear Mr. Morgan:-

When this work is completed you will have something of incalculable value. As it now stands, I could be in three months in a position to establish communication with the chief cities of the world. This in itself would insure the realization of the financial plan as outlined in Mr. Steele's letter to me of Oct. 21, 1902. In two months more, I would be able to demonstrate that power can be transmitted by my wireless system, regardless of distance, without appreciable loss. Think only, Mr. Morgan, what this means in your hands. You can not permit that such a marvelous opportunity is lost after what you have already done.

Would you be willing to advance the money if the Nikola Tesla Company were to authorize a bond issue for the amount. You could attach to this any condition you consider fair. My work is thorough, Mr. Morgan; it may seem long to complete, but I assure you that the ultimate results will be very gratifying to you.

(no date)

Copy.

New York, Jan. 13, 1904.



Dear Mr. Morgan:-

1) The Canadian Niagara Co. will be in a position to furnish me ten thousand H.P. for twenty years without charge, if I put up a plant there. I transmit this power to other parts of the world. My system permits the transmission to be effected practically without loss. These people have great faith in me. Besides furnishing the power they will take financial interest in my enterprise. With this splendid start I hope to realize the project I submitted to you about a year and a half ago. As outlined then, I would use the energy, not for industrial purposes, but for operating clocks, stock tickers and other apparatus, of which there are millions now in use. On the average I shall require not more than one cent of one H.P. for each instrument. With ten thousand H.P. I shall be able to offer a great convenience to the whole world. I have calculated that with an ~~investment~~ investment of about half a million dollars from two to three millions can be easily earned per annum. To illustrate one of the features, I would start a manufacturing company there, which would simply turn out clocks. These instruments will be extremely cheap, having practically nothing but the hands and a couple of coils. They could be readily produced for two dollars, and sold for, say, ten. They will require no winding up, no attention at all and would indicate absolutely correct time. They would be adopted everywhere on land and sea.

2) I have made preliminary arrangements for manufacture of some of my inventions with a good manufacturing concern. (This has nothing to do with the above.) They will produce and put together all purely machine parts and I shall have only the electrical parts to make. This reduces the capital which I need to manufacture to about one third.

3) I am organizing an office in this city as consulting Engineer for the two fold purpose of (a) facilitating all my commercial undertakings and (b) securing a permanent income. I have never accepted a fee in my life. I am sure I can earn about fifty thousand dollars a year in this capacity.

Now, Mr. Morgan I want a small capital to put myself on an earning basis. Will you help me on any terms you choose and enable me to insure and develop a great property, which will ultimately yield hundred fold returns. Please do not do me an injustice in believing me incapable simply because a certain sum of money was not sufficient to carry out my undertaking. It is not my fault that prices have gone up, but there have been delays, that there is a panic. You may see that my work remains uncompleted because of lack of funds, but you will never see, that machinery

263

262
266



which I construct does not fulfill the purpose for which it was designed.

On-day being my New Year, I take this opportunity to renew my heartiest wishes for your triumph over your enemies.

Yours faithfully,

N. Tesla.

23 WALL STREET

June 12/84

My dear Sir,



In reply to your note I regret to say that I should not be willing to advance any further amounts of money as I have already told you. Of course I wish you every success in your undertaking.

Yours truly,

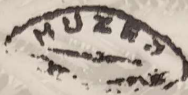
J. Morgan

A. C. Deane, Esq.,
New York, Astoria

23 WALL STREET

Jan 13/04

My dear Sir,



In reply to your note
I regret to say that I
should not be willing
to advance any further
amounts of money
as I have already told
you. Of course I
wish you every success
in your undertaking.

Yours truly,
J. P. Morgan

N. Tesla, Esq.,
Waldorf-Astoria

The Waldorf-Astoria, New York,

Jan. 14, 1904.



Dear Mr. Morgan:-

That was a nice letter to receive on my New Year! Had you at least waited till to-day, bad news travels fast enough. You wish me success! It is in your hands, how can I wish it?

We start on a proposition, everything only calculated it is financially frail. You engage in impossible operations, you make me pay double, yes, make me wait ten months for machinery. On the top of that you produce a panic. When after putting in all I could scrape together I come to show you that I have done the best that could be done you fire me out like an officer boy and roar so that you are heard six blocks away: not a cent. It is spread all over town, I am discredited, the building stands still.

It is just four or five months that the constructive work on my plant was stopped. If I would have been helped at that time three months more with a force of men would have completed it and now it would be paying ten thousand dollars a day. More than this, I would have secured contracts from governments for a number of similar plants. I am the discoverer of the principles and the inventor of all the essential devices and no one would have had the slightest chance in a competition with me. You have favored the schemers who have no knowledge or skill, but a real and cursing sense of ~~frustration~~ to feel the world and to hurt my work more by their incompetent attempts and far more than they ever could by success.

Now when I have practically removed all obstacles skillfully put in my way and need only a little more to save a great property, which would pay you ten million dollars as surely as one cent, you refuse me help in a trouble brought on by your own doings! Twenty-five thousand dollars would enable me:

- 1) to start the manufacture of oscillators, which would make my undertaking with you self-supporting and insure the ultimate success of my plans;
- 2) to put my light on the market;
- 3) to form a lighting company and realize the cash still necessary to complete my plant;
- 4) the completion of this plant will put me in the position of carrying through the plan at Niagara;
- 5) my office will naturally facilitate all this and yield a permanent income.

This would be to reach success in a slow and painful way. If I had now what I need to complete the plant, that would be different!

267

266
277



I am as anxious to succeed on your account as mine.
What a dreadful thing it would be to have the
papers come with your name
in red letters
over the globe. You may not care for it, Mr. Morgan, men are
like flies to you. But I would have to work five years to repair
the damage, if reparable at all. I have told you all. Please do
not write to refuse.
I am pained enough as it is.

Yours sorrowfully,

N. Tesla.

The Waldorf-Astoria, New York,

Jan. 22nd, 1904.

267
378

Dear Mr. Morgan:-

Are you going to leave me in a hole?!!

I have made a thousand powerful enemies on your account, because I have told them that ~~xxxxxxx~~ I value one of your shoddy strings more than all of them.

Do not grow old and as weak men do. You are good for another twenty years, if you hold on to life, to your people and young ideas.

Could I not pledge you in my plant a while for twenty-five thousand dollars I need to carry out the plan outlined in my last letter? If it is not worth that much, I am not an engineer of world repute, but a chump.

The better way, however, would be to enable me to complete the plant at once. This would mean for you many millions of dollars, and, what is more important still, a power which you could use effectively. I hope that you never for a moment confounded my art with the incompetent efforts of my imitators. I could do better than any of them, if ninety-nine parts of me were paralyzed. In a hundred years from now this country would give much for the first honors of transmitting power without wires. It must be done by my methods and apparatus and I should be aided to do it first myself.

Yours most faithfully,

N. Tesla.

X X

Copy.

The Valhalla-Astoria, New York,

April 1st, 1904.



277
400

Dear Mr. Morgan:-

I have solved the greatest industrial problem which confronted humanity since ages. My success is absolutely certain. I can deliver power in any desired amounts over any distance without wire, in a practical and most economical manner. This will be of incalculable consequence on the cost of necessities and commodities. The prices of oil and coal in particular will be greatly affected, merely by the moral effect of the first public demonstrations.

I am tired of speaking to pusillanimous people who become scared, when I ask them to invest five thousand dollars, and get the diarrhoea when I call for ten. Will you aid me to complete this great work? I have managed to advance it considerably. A little more and I shall have practical results which will give you the basis for a business of a magnitude such as the world has never seen before.

Yours most faithfully,

N. Tesla.

New York, April 2, 190

615

604



Dear Mr. Muzzey:

I have just received the book of 300 pages which you have
sent me in place of the one which I had ordered. It is
described. I have put all the material in the book in
this place. With first thousand dollars worth of material, as
I have an interest in the book.

Yours very truly,

W. L. Muzzey

Copy.

of these features, I
could simply turn out clocks. These instruments
will be extremely cheap, having practically nothing
but the hands and a couple of coils. They could
readily be produced for two dollars, and sold for, say,
ten. They will require no winding up, no attention at all
and would indicate absolutely correct time.

N. Tesla

from Swezey card file
S-3

100-1042
100-117

June 13, 1904

Dear Mr. Morgan:

The Canadian Niagara Co. will agree in writing to furnish me 10,000 h.p. for twenty years without charge, if I put up a plant there to transmit this power without wires to other parts of the world. My system permits the transmission to be effected practically without loss...

...To illustrate one of these features, I would start a manufacturing company there, which would simply turn out clocks. These instruments will be extremely cheap, having practically nothing but the hands and a couple of coils. They could readily be produced for two dollars, and sold for, say, ten. They will require no winding up, no attention at all and would indicate absolutely correct time.

N. Tesla

from Swezey card file
S-3

11
New York, October 13th, 1904.

J. P. Morgan, Esq.,
New York City.



Dear Mr. Morgan:-

I would beg you, in all earnestness, to peruse the following statement of facts which I have brought separately to your attention.

1. Five years ago, (as you may have gathered from my original announcement in the Century of June 1900, copy of a patent specification filed May 16, 1900, and article in the Electrical World and Engineer of March 5, 1904) I succeeded in encircling the Earth with electrical waves. What gave to this result, far-reaching in itself, a tremendous significance, was the observation that in their passage, from Colorado Springs to the diametrically opposite region of the globe and return, the waves suffered no perceptible diminution of intensity, thus affording an absolute experimental evidence, that by my system power in unlimited amounts can be transmitted, without wire, to any distance and, virtually, without loss.
2. I recorded my discoveries in the Patent Office and secured broad and uncontested rights in Patents, some of which I am still keeping back, for reasons which it is unnecessary to explain. When they appear they will create a profound impression.
3. I was, even then, firmly convinced that these advances would prove of greater importance than the steam engine, the telegraph, the telephone and my multiphase motor combined, for they offered an ideal solution of the problems of fuel, transportation, and intelligence-transmission, in all their ramifications.
4. Desiring to obtain a support such as this work was deserving, more for the good of the world than my own, I approached you, naturally enough with the easily realizable project of establishing communication across the Atlantic, which required a smaller investment.
5. I was fortunate to enlist your interest, but not quite on the lines of my own suggestion. I contemplated the formation of one or two companies, to which all my inventions in wireless telegraphy and telephony and in my system of lighting were, respectively, to be assigned, and proposed that you take fifty-one



percent. of the stock (not fifty, as you yourself said in our first conversation, because then you would not control), the remainder to go to my Parent Company. But when I received your formal letter it specified an interest of fifty-one percent. in patents on these inventions. That was different though my share was the same. It was a simple sale. The terms were entirely immaterial to me and I said nothing, for fear of offending you. You have repeatedly referred to some stock and it is just possible, that a mistake was made, and that you intended to take exactly what I proposed, and what would have been, for many reasons, greatly to my advantage.

6. Your participation called for a careful revision of my plans. I could not develop the business slowly in grocery shops in fashion. I could not report yacht races or signal incoming steamers. There was no money in this. This was no business for a man of your position and importance. Perhaps you have never fully appreciated the sense of this obligation.

7. When I discovered, rather accidentally, that others, who openly cast ridicule on what I had undertaken and discredited my apparatus, were secretly employing it, evidently bent on the same task, I found myself confronted with wholly unforeseen conditions. How to meet them was the question. Of course, I could not enjoin the infringers. In Canada, almost midway, I had no rights. My Patents on the art of individualization, insuring non-interference and non-interferability, were not as yet granted in England and the United States. Suppose I was anticipated in this invention? Then I would have to rely on ordinary tuning. This was in a measure, satisfactory so long as I was alone, but shrewd competitors, with the advantage they had, could make me fall short, as the capital I had at disposal was only sufficient for two small plants. Once I failed with you in the first attempt, you would not listen to any other proposition. Once I lost your support I could not be- cause of your personality and character of our agreement, interest anybody else, at least not for several years, until the business would be developed and the commercial value of my patents recognized. But there was one way, the only way, of meeting every possible emergency, and making the ultimate success perfectly certain.

8. Here I must add a purely explanatory paragraph. Suppose a plant is constructed capable of sending signals within a given radius, and consider an extension to twice this distance. The area being then four times as large the returns will be, roughly, fourfold on account of this alone. The messages, however, will become more valuable. Approximately computed, the average price will be tripled. This means that a plant with a radius of activity twice as large will earn twelve times as much. But it will cost



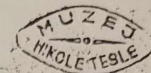
scarcely twice as much. Hence in investing a certain sum destined for two small plants into a single one, the earnings will be six-fold increased. The greater the distance the greater the gain until, when the plant can transmit signals to the uttermost confines of the Earth, its earning power becomes, so to speak, unlimited.

9. The way to do was to construct such a plant. It would yield the greatest returns, not only for the reasons just mentioned, but also because every other plant erected anywhere in the world, by anyone, was sure to be turned into a source of income. It would give the greatest force to my Patents and insure a monopoly. It would make certain the acceptance of my system by all governments. It discounted in advance all possible drawbacks, as anticipation of the results by the trespassers of my rights and delay. It offered possibilities for a business on a large, dignified scale, commensurate with your position in life and mine as a pioneer in this art, who has originated all its essential principles.

10. The practicability of such an undertaking I had already demonstrated in Colorado, but to make those feeble effects, barely detectable by delicate instruments, commercially available all over the Earth, required a very large sum of money. You had told me from the outset that I should not ask for more, but the work was of such transcending importance and it was of such enormous value in your hands, that I undertook to explain to you the state of things on your first return from abroad. You seemed to misunderstand me. That was most unfortunate. Had I obtained your hearing, your enemies would not have succeeded in inflicting you injuries, for the first motor or lamp operated across the Pacific, would have delivered them in your power. To achieve a great result is one thing, to achieve it at the right moment is another. That favorable moment is gone forever. Your popularity has suffered, the moral force of my work has been weakened by delay, the audacious schemers who have dared to fool the crowned heads of Europe, the President of the United States, and even His Holiness the Pope, have discredited the art by incompetent attempts and spoiled the public by false promises which it cannot distinguish from those sure of fulfillment, based on knowledge and skill and legitimate right. That is what pains me most.

11. Still, in spite of all this, Mr. Morgan, I can realize what I have held out to you when you yourself said to me, that "you had no doubt". I know you must be sceptical about getting hundredfold returns, but if you will help me to the end you will soon see that my judgement is true. When my first plant is completed I can place a dozen of such at once. I do not need to wait for returns from subscribers. There are one thousand million

J. P. M.,-4.



dollars invested in submarine cables alone. This immense property is threatened with destruction because just as soon as people find that messages for, say, five cents a word can be transmitted to any distance, nothing will stop the demand for the cheaper and quicker means of communication. The investment in cables is too large to pay on this low basis and the only chance the Companies have is to take hold of the new advances. My patents control every essential element of the art. They are impregnable. In your hands, and backed by these great results, they should be of enormous value.

12. My work is now far advanced and could be finished quickly. I have expended about \$250,000 in all and a much smaller sum separates me from a great triumph. If you have lost faith in me have you not someone in whose knowledge and ability you have greater confidence than in mine, and to whom I could explain? ~~Seventy-five~~ seventy-five thousand dollars would certainly complete the plant and then I would have no difficulty whatever in getting all the capital necessary for the further commercial expansion.

13. Since a year, Mr. Morgan, there has been hardly a night when my pillow was not bathed in tears, but you must not think me a weak man for that. I am perfectly sure to finish my task, come what may. I am only sorry that after mastering all the difficulties which seemed insuperable, and acquiring a special knowledge and ability which I now alone possess, and which, if applied effectively, would advance the world a century, I must see my work delayed.

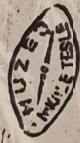
In the hope of hearing from you favorably, I remain,

Yours most faithfully,

Folder 1 of 2

23 WALL STREET

New York, Oct. 15th, 1904.



Mr. Nicola Tesla,
Waldorf-Astoria,
New York City.

Dear Sir:-

Referring to your letter of
13th October, Mr. J. P. Morgan wishes
me to inform you that it will be impos-
sible for him to do anything more in
the matter.

Yours truly,

A handwritten signature in cursive script, appearing to read "B. W. King".

Private Secretary.

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New York, Oct. 15th, 1904.



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Waldorf-Astoria,
New York City.

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13th October, Mr. J. P. Morgan wishes
me to inform you that it will be impos-
sible for him to do anything more in
the matter.

Yours truly,

A handwritten signature in cursive script, reading "B. W. King".

Private Secretary.

757

New York, Oct. 17th, 1904.



682
75

Dear Mr. Morgan:

You are a man like Bismarck, great but uncontrollable. I wrote purposely last week, hoping that your recent association might have rendered you more susceptible to a softer influence. But you are no Christian at all, you are a fanatic Mussulman. Once you say no, come what may, it is no. May the gravitation repel instead of attract, may right become wrong; every consideration, no matter what it be, must founder on the rock of your brutal resolve.

It is incredible. A year and a half ago I could have delivered a lecture here, which would have been listened to by all the academies of the world, in the tone of my voice! That would have been the time to thank you.

You let me struggle on, weakened by shrewd enemies, disheartened by ~~country~~ friends, financially exhausted, trying to overcome obstacles which you yourself have piled up before me.

I know; Rankine told me that a time they had in placing the Niagara bonds. And what a time must I have?! "If this is a good thing, why does not Morgan see you through?" "Morgan is the very last man to let a good thing go!" So it has been going on for two years. I advance, but how? Like a man swimming against a stream that carries him down.

Will you not listen to anything at all? Are you to let me perhaps succumb, lose an immortal crown, will you let a property of immense value be depreciated, let it be said that your own judgment was defective, simply because you had once said no. Can

not I make you a new proposition to overcome the difficulty? I

tell you I shall return your money a hundredfold.

Yours faithfully,

N. Tesla.

Copy.

752

The Waldorf-Astoria, New York,

Nov. 5, 1904.



Dear Mr. Morgan:-

The inclosed bears out my statement made to you over a year and a half ago. The old plant has never worked beyond a few hundred miles. Apart of imperfection of the apparatus inside there were four defects, each of which was fatal to success. It does not seem probable that the new plant will do much better, for these faults were of a widely different nature and difficult to discover.

As to the remedies, I have protected myself in applications filed 1900 - 1902, still in the office.

Yours faithfully,

N. Tesla.

Copy.

(Note. Sent clipping from Electrical World and Engineer, of Oct. 5th, 1904, relative to removal of Marconi station.)

Folder 1012

Should be Nov.
See clipping that follows

86

Folder 17

ELECTRICAL WORLD AND ENGINEER.

Vol. XLIV, No. 19.

Company, describes such a key. The actuating lever carries an iron armature which is presented to an electromagnet when the lever is depressed. The electromagnet has two windings. One of these is local and is controlled by a contact closed when the lever is pressed. This winding effects the locking of the lever by causing an attraction for the attached armature. The other winding is in series with the alternating ringing supply. The magnetizing effect of this latter coil is immaterial until the subscriber in answering the bell with the low-resistance talking circuit. The rush of alternating current following this is sufficient to demagnetize instantaneously the lock, and allow the lever to restore.

RECEIVER SUPPORT.

Frank W. St. John, of Coshocton, Ohio, has produced a receiver support which includes some novel features. The supporting arm swings in a vertical plane, driving its supporting shaft with it. This shaft carries a notched wheel upon which bears a spring of sufficient strength to hold the receiver at any level at which placed. The telephone circuits are controlled by a switch driven by the shaft. The ringing condition exists when the receiver is turned up out of the way.

MULTIPLE TRANSMITTER MOUTHPIECE.

To avoid the necessity of two persons immediately following each other in the use of a telephone using the same transmitter mouthpiece, a rotary mouthpiece having several bells has been patented by J. S. Ashe, of Philadelphia. With such an arrangement the mouthpieces have good opportunity to air.

CURRENT NEWS AND NOTES.

WIRELESS TO BOSTON.

A special dispatch from Boston says: "It is announced that within sixty days apparatus for wireless telegraphic communication between Boston, Providence, New Haven and New York will be in operation. The American-De Forest Wireless Telegraph Company is the projector. G. H. Barbour, its executive engineer, was in Boston recently and closed a contract for the erection of the station. Ocean messages also will be sent and received."

MARCONI STATION AT TABLE HEAD.

It is stated that a new Marconi wireless telegraph station is to be erected at Port Morien, about four miles from Glace Bay, N. S. The present towers at Table Head are to be dismantled. The old power house and operating room are to be removed to the new location, at which new towers, 215 ft. high, are to be erected. The Marconi Company, it is further stated, has purchased 400 acres of land where the new station is to be established, the station to be located in the center of the property.

N. E. L. A.—The National Electric Light Association is about to start an active campaign for new members, and the appointment of Mr. Henry L. Doherty as a committee on membership promises well.

Folder 1042

Box 8
Cables 17

at all times on closed circuit through properly placed brushes, while the former winding is locally short-circuited only when the armature has attained a speed sufficiently high to bring into action a centrifugally-operated mechanism. This construction allows of high torque for starting and gives high power factor under running conditions. A slight modification of connections leads to the use of common conductors for the induction motor and repulsion motor circuits, the results being a diminution of material required and increased losses therein.

THE SARNIA TUNNEL DISASTER.

Commissioners for Canada is endeavoring to get the railway corporations of the Dominion to agree to certain precautions for the reduction of liability to railway accident. Reference was made by the chairman of the board to the recent disaster in the Grand Trunk tunnel at Sarnia, Ont. The chairman stated that one means of preventing the recurrence of such loss of life was to substitute the use of electric motors for the haulage of trains through this tunnel, and the commission would urge the imperative necessity of this suggestion being adopted by the Grand Trunk Railway Company, which must itself be impressed with the desirability of employing electric instead of steam traction at this point on its system. He remembered that a freight train parted in the Sarnia tunnel a few weeks ago and before the parts could be reunited and the train moved out the accumulated coal gas from the engine suffocated six men.

ELECTRIC CLUTCH FOR VARIABLE SPEED.

The torque exerted by an induction motor when running near synchronism varies with the slip and becomes negative when the slip is negative, so that when driven above synchronism such a motor becomes a generator and returns power to the supply system. This feature of the super-synchronous operated induction machine is embodied in an electric clutch, for which a patent was recently issued to N. S. Beam and C. L. Clarke. The rotor of the induction motor is mechanically connected to the rotating shaft of a constant-speed motor, the armature of which is electrically connected to the primary windings of the induction motor, the core of which, being free to revolve, carries with it the shaft to be driven. The rotating field in the primary travels in the same direction that the rotor of the induction motor is driven. The number of poles on the field of the induction motor is double that of the poles on the constant-speed, synchronous motor. A variation in the relative speed of the rotor and the rotating field of the induction motor due to load on the shaft driven by the primary core, causes the machine to act as a generator and return energy to the line. The system is intended particularly for use on a locomotive in connection with a synchronous motor.

A NOVEL SYNCHRONOUS CONVERTER.—An interesting method of connecting in concatenation an induction motor with a synchronous motor or rotary converter, forms the substance of a patent issued October 20, 1904.

Box 8
Cables 17

1900-1904

John Pierpont Morgan (Sr. & Jr.)

Library of Congress -

MS 481

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CURRENT NEWS AND NOTES.

WIRELESS TO BOSTON.—A special dispatch from Boston says: "It is announced that within sixty days apparatus for wireless telegraphic communication between Boston, Providence, New Haven and New York will be in operation. The American-De Forest Wireless Telegraph Company is the projector. G. H. Barbour, its executive engineer, was in Boston recently and closed a contract for the erection of the station. Ocean messages also will be sent and received."

MARCONI STATION AT TABLE HEAD.—It is stated that a new Marconi wireless telegraph station is to be erected at Port Morien, about four miles from Glace Bay, N. S. The present towers at Table Head are to be dismantled. The old power house and operating room are to be removed to the new location, at which new towers, 215 ft. high, are to be erected. The Marconi Company, it is further stated, has purchased 400 acres of land where the new station is to be established, the station to be located in the center of the property.

N. E. L. A.—The National Electric Light Association is about to start an active campaign for new members, and the appointment of Mr. Henry L. Doherty as a committee on membership promises well for its success. The great increase in membership in the past two or three years was largely due to Mr. Doherty's personal efforts and methods suggested by him, and now that he has taken the matter up officially large results may be looked for. At the last meeting three new classes of membership were created, and it is in these classes particularly that the increase is expected. Officers and employees of member-companies are to be received as members, with the written consent of the member company with whom they are connected. The entrance fee for such members will be \$5 and the annual dues \$5. They will receive the various publications issued by the association throughout the year. College professors and teachers of electrical engineering may become members at a rate of dues of \$4 per year, with no entrance fee.

REPULSION-INDUCTION MOTOR.—A patent issued October 18, 1904, to Mr. W. A. Layman, relates to a modified form of self-starting, single-phase induction motor, which differs from that type which starts as a repulsion motor, and is converted into an induction motor after a certain speed has been attained, in that in the new machine the repulsion motor circuits are so arranged as always to be operative. The inventor obtains this result by supplying the armature with two sets of windings, one for the induction and the other for the repulsion motor operation. The latter winding is kept

at all times on closed circuit through properly placed brushes, while the former winding is locally short-circuited only when the armature has attained a speed sufficiently high to bring into action a centrifugally-operated mechanism. This construction allows of high torque for starting and gives high power factor under running conditions. A slight modification of connections leads to the use of common conductors for the induction motor and repulsion motor circuits, the results being a diminution of material required and increased losses therein.

THE SARNIA TUNNEL DISASTER.—The Board of Railway Commissioners for Canada is endeavoring to get the railway corporations of the Dominion to agree to certain precautions for the reduction of liability to railway accident. Reference was made by the chairman of the board to the recent disaster in the Grand Trunk tunnel at Sarnia, Ont. The chairman stated that one means of preventing the recurrence of such loss of life was to substitute the use of electric motors for the haulage of trains through this tunnel, and the commission would urge the imperative necessity of this suggestion being adopted by the Grand Trunk Railway Company, which must itself be impressed with the desirability of employing electric instead of steam traction at this point on its system. It will be remembered that a freight train parted in the Sarnia tunnel a few weeks ago and before the parts could be reunited and the train moved out the accumulated coal gas from the engine suffocated six men.

ELECTRIC CLUTCH FOR VARIABLE SPEED.—The torque exerted by an induction motor when running near synchronism varies with the slip and becomes negative when the slip is negative, so that when driven above synchronism such a motor becomes a generator and returns power to the supply system. This feature of the super-synchronously operated induction machine is embodied in an electric clutch, for which a patent was recently issued to N. S. Beam and C. L. Clarke. The rotor of the induction motor is mechanically connected to the rotating shaft of a constant-speed motor, the armature of which is electrically connected to the primary windings of the induction motor, the core of which, being free to revolve, carries with it the shaft to be driven. The rotating field in the primary travels in the same direction that the rotor of the induction motor is driven. The number of poles on the field of the induction machine is double that of the poles on the constant-speed, synchronous motor. A variation in the relative speed of the rotor and the rotating field of the induction motor due to load on the shaft driven by the primary core, causes the machine to act as a generator and return energy to the line. The system is intended particularly for use on a locomotive in connection with a synchronous motor.

A NOVEL SYNCHRONOUS CONVERTER.—An interesting method of connecting in concatenation an induction motor with a synchronous motor or rotary converter, forms the substance of a patent issued October 18 to O. S. Bragstad and J. L. La Cour. The frequency of the current in the secondary of an induction motor varies directly with the slip, and at one-half synchronism it has a value equal to one-half of the circuit frequency. By driving the moving member of a synchronous motor mechanically with the rotor of an induction motor and connecting the secondary windings of the induction motor to the armature of the synchronous machine, the set will synchronize at one-half speed. The inventors propose to use as synchronous motor a rotary converter which can deliver direct current to an external load and to its own field windings. This arrangement allows the converter to be operated at one-half the circuit frequency, which condition of operation is conducive to improved commutation as compared with direct transformer connection to the supply lines, while the machine may readily be placed in use from the alternating-current side. The primary of the induction motor may be wound for the high line e.m.f., thus eliminating the need of additional transformers. In comparison with an induction motor-driven, direct-current generator set, the combination is much less expensive, due to the fact that the motor here required need be of but one-half the capacity of the load since only this amount of its energy is delivered mechanically, the remainder being given off through transformer action; and also to the fact that a synchronous converter is more economical in material than a direct-current generator of the same output.

Nov. 5, 1904

990

"Teach One The Subways" (from the Sun of Nov. 1) appears on other side (p. 777)

Tesla Correspondence

John Pierpont Morgan (Sr.)
1900-1904
Folder 1042

The Waldorf-Astoria, New York,

Nov. 18th, 1904.

NOV 23

Dear Mr. Morga

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EDITORIAL COMMENT

The Tesla Motor and the Polyphase System The types of alternating-current apparatus which are in use to-day have resulted from a process of evolution which has been going on for many years and in which the polyphase induction motor has been the fundamental element. The announcement of the polyphase induction motor and of the polyphase system were made by Mr. Tesla in 1888. The motor excited much interest and expectation. The polyphase system received little consideration. The motor, however, was helpless without a supply of suitable current. The alternators of that day were single-phase, they gave 120 to 133 cycles; alternators and transformers were ill adapted for supplying out-of-phase current. Persistent work, not only in the design and development of the motor but in that of the system as well was required before commercial success could be secured. In reaching this point it was not only necessary to overcome preconceived ideas of the public, but the electrical workers themselves had to unlearn, or at least readjust much of the information which they had acquired in connection with direct-current and single-phase alternating current apparatus and practice. In point

Folder 1012

Box 8
Folder 17

EDITORIAL COMMENT

The Tesla Motor and the Polyphase System

The types of alternating-current apparatus which are in use to-day have resulted from a process of evolution which has been going on for many years and in which the polyphase induction motor has been the fundamental element. The announcement of the polyphase induction motor and of the polyphase system were made by Mr. Tesla in 1888. The motor excited much interest and expectation. The polyphase system received little consideration. The motor, however, was helpless without a supply of suitable current. The alternators of that day were single-phase, they gave 120 to 133 cycles; alternators and transformers were ill adapted for supplying out-of-phase current. Persistent work, not only in the design and development of the motor but in that of the system as well was required before commercial success could be secured. In reaching this point it was not only necessary to overcome preconceived ideas of the public, but the electrical workers themselves had to unlearn, or at least readjust much of the information which they had acquired in connection with direct-current and single-phase alternating current apparatus and practice. In point of fact the Tesla invention was not merely a motor, but a system. Commercial men and engineers who did not understand the problems involved were naturally impatient and critical because the Tesla motor was not immediately supplied for operation upon existing circuits and in connection with the then prevalent types of generators. As a matter of history it is the Tesla principle and the Tesla system which have been the directing factors in modern electrical engineering practice. Alternators are now polyphase; they are of low frequency, they have close inherent regulation. All of the long distance systems for power transmission involving hundreds of installations, hundreds of thousands of horse-power and many millions of dollars of capital use the polyphase system. Nearly all of the great central stations for city railway and lighting service, even when the consumption circuits are supplied with direct current employ low frequency polyphase alternators. There is scarcely an important city or town in the country that has not a polyphase plant and polyphase apparatus is largely used for power distribution in industrial establishments.

This evolution has involved far more than the mere perfection of the motor. In fact polyphase motors as made prior to 1890 if operated in connection with modern generators would probably be more successful than the motors of to-day if operated in connection with polyphase alternators of the types first employed. The early polyphase alternators were small, they were of high frequency, they were of poor regulating qualities. Changes have been made in alternators and in transformers. Parallel operation of alternators has become a necessity, imposing exacting problems in the design and operation of steam engines. The extent to which everything in modern electrical power work has been affected by Tesla's inventions makes it apparent that the polyphase motor which he proposed was no simple and isolated thing, but it was the central factor in a great and comprehensive system. The whole trend and evolution for the past sixteen years has been in the development of the polyphase system primarily that it may operate the polyphase induction motor. The realization of the Tesla invention was looked for simply in a motor to be forthcoming in a few months; it has come in an evolution of engineering practice which has been the work of years.

CHAS. F. SCOTT.

ELECTRIC CLUB JOURNAL

OCT. 1904
pp 558-9

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Journal,

90

MS 481

Manuscript Collection

Library of Congress

Nikola Tesla

Correspondence

John Pierpont Morgan (Sr. & Jr.)

1700-1904

Folder 1012

Box 8

Folder 17

790

The Waldorf-Astoria, New York,

Nov. 18th, 1904.



52
407

Dear Mr. Morgan:-

The inclosed written by the ablest man in the field of electrical transmission by my system reminds me of the difficulties I had in convincing people of the value of that invention. What I have now is immensely more valuable and consequential.

Yours faithfully,

N. Tesla.

(Sent: Editorial by C. F. Scott from Electric Club Journal, October, 1904.)

Copy.

1900-1904

Folder 1012

Folder 17

Copy.

New York, Dec. 20, 1904.

Dear Mr. Morgan:-

1. If you will advance me one hundred thousand dollars, which will enable me to complete my plant and install some telegraphic and telephonic receivers on a few of the most important points in the world, I will return on your investment of \$250,000 twenty-five millions. To attain this result it is necessary that the work be attacked at once.

2. Assuming that you are not willing to do this, if you will advance me fifty-thousand, which will suffice to finish the indispensable parts, make everything perfect, fire-proof, as I have planned and take out an insurance, my ultimate success will be rendered certain, and although you may have to wait long, I shall still and without fail carry out my promise of returning to you one hundred times the sum invested.

3. If you do not want to do this, only one thing remains. You release me of all obligation, give me back my assignments, and consider the sum you have invested as a generous contribution, leaving it all to my integrity and ability to work out the best results for you and for myself. In this case I intend to go on a lecture tour, which I believe will give me enough money to complete the plant. Once I am so far it would not take me more than a week to get a few millions in Wall Street. I hope sincerely, that you will not resolve yourself to this last course. Believe me, you would give me great pain.

Yours faithfully,

N. Tesla.

Folder 1042

Box 8
Folder 17

Copy.

New York, Dec. 20, 1904.

Dear Mr. Morgan:-

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2. Assuming that you are not willing to do this, if you will advance me fifty-thousand, which will suffice to finish the indispensable parts, make everything perfect, fire-proof, as I have planned and take out an insurance, my ultimate success will be rendered certain, and although you may have to wait long, I shall still and without fail carry out my promise of returning to you one hundred times the sum invested.

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Yours faithfully,

N. Tesla.

Folder 1042

Box 8
Folder 17

23 WALL STREET

N.Y. Dec 14/04

N. Tesla Esq
Waldorf Astoria
City

Dear Sir,



I have received your
note of 10th inst and in
reply would state that
I am not willing to
advance you any more
money, as I have fre-
quently told you.

As to your third
proposition I am not
prepared to accept this
either. I have made
and carried out with

you in good faith, a
Contract, and, having
performed my part,
it is not unreasonable
that I expect you to
carry out yours.

Yours very truly,
J. Pierpont Morgan
Pub. W. King,
Private Secretary.



(Letter dictated by
Mr. J. P. Morgan.)

23 WALL STREET

Dec 14/04

Wm. D. C. 1871

I have received your
note of 10th inst and in
reply would state that
I am not willing to
advance you any more
money, as I have pre-
viously told you.

! No to yourself
Proposition I am not
prepared to accept this
either. (I have made)
and carried out with)

you in good faith, &
conduct, and, having
performed my part,
it is not unreasonable
that I expect you to
carry out yours.

Dear Mr. Davenport,



(Notwithstanding
the strength.)

243
New York, Dec. 18th, 1901.



Dear Mr. Morgan:-

To-day is my patron saint, who has stood by me.

Will you let me complete the important work and tell the world, in a way which will be forever recorded in history, that I have to thank only to the generosity of a great man and my own efforts?

I am fully aware, Mr. Morgan, that your hands are full and that you are perhaps grieved. But permit me to tell you that in the eyes of those who see far you have shown yourself greater and stronger than ever before. (Those who know you believe in your complete triumph?)

Yours most faithfully,

N. Tesla.

Copy.

New York, Dec. 19, 1904.

Mr. J. P. Morgan,
New York City.



Sir:-

Owing to a habit contracted long ago, in defiance of superstition, I prefer to make important communications on Fridays and the 13th of each month, but my house is afire and I have not an hour to waste.

I knew that you would refuse. What chance have I to land the biggest Wall Street monster with the soul's spider thread!

Your letter reached me just on the day of my patron saint - the greatest of all - St. Nikola. There was a silent agreement between St. Nikola and myself that we would stick to each other. He did well for a time, but during the last three years he has forgotten me, - as you have.

You say that you have fulfilled your contract with me.
You have not.

I came to you to enlist your genius and power, not because of money. You should know that I have honored you in so doing as much as I have honored myself. You are a big man, but your work is wrought in passing form, mine is immortal. I came to you with the greatest invention of all times. I have more original creations named after me than any other man that has gone before, not excepting Archimedes and Galileo - the giants of invention. Six thousand million dollars are invested in enterprises based on my discoveries in the United States to-day. I could draw on you at sight for a million dollars, if you were the Pierpont Morgan of old.

When we entered our contract I furnished 1) patent-rights, 2) my ability as engineer and electrician, 3) my good will. You were to furnish 1) money, 2) your business ability, 3) your good will. I assigned patent-rights which, in the worst case, are worth ten times your cash investment. You advanced the money, true, but even this first clause of our contract was violated. There was a delay of two months in furnishing the last \$50,000 - a delay which was fatal.

I complied conscientiously with the second and third obligations. You ignored yours deliberately. Not only this, but you discredited me.

There is only one way to do, Mr. Morgan. Give me the money to finish a great work, which will advance the world a century and reflect honor on all that come after you. Or else, make me a present and let me work out my salvation. Your interest is sacred to me and my hearty wishes for your happiness and welfare will always be with you.

Faithfully yours,

N. Tesla.

M
J.P. MORGAN & CO.
Wall St. Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, HANKE & CO.
Paris.

New York,

January 6th, 1905.



Nikola Tesla, Esq.,

Waldorf-Astoria,

New York, N. Y.

Dear Sir:-

We enclose herewith receipted bill for Exchange ordered by you
and also check for difference.

Yours truly,

J.P. Morgan

Enclosures 2.

Copy.

New York, Feb. 17th, 1905.



Dear Mr. Morgan:-

Let me tell you once more.

I have perfected the greatest invention of all times - the transmission of electrical energy without wires to any distance, a work which has consumed ten years of my life. It is the long sought stone of the philosophers. I need but to complete the plant I have constructed and in one bound humanity will advance centuries. I am the only man on this earth to-day, who has the peculiar knowledge and ability to achieve this wonder and another one may not come in a hundred years. There has been a long and painful day. My nerves are not of iron, and all this knowledge and ability may be lost to the world. Please do not delay further to act either one or the other way. Help me to complete this work or else remove the obstacles in my path.

I was heartily glad to see you in such splendid health yesterday. You are good for another twenty years of active life.

Faithfully yours,

N. Tesla.

Copy.

134

New York, Feb. 27th, 1905.



Mr. J. P. Morgan,

25 Wall Str., New York.

Dear Mr. Morgan:-

Understanding that you are to sail the day after to-morrow I would earnestly beg you not to leave without some understanding offering me a chance to complete soon the work which, but for unfortunate circumstances, would have been finished three years ago. The attention of the whole world is turned upon it and something must be done for your as well as for my sake.

There are a number of ways which might lead to quick results without further expenditures on your part. If you will kindly accord me a few moments at your convenience, for the purpose of choosing a plan, I believe that at a time not very distant you would have every reason to be satisfied.

Yours faithfully,

Copy

signed N. Tesla

Copy.

134

New York, Feb. 27th, 1905.



Mr. J. P. Morgan,

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Yours faithfully,

Copy

signed N. Tesla



134

151

Folder 1042

New York, Sep. 29th, 1905.

Copy,

Mr. J. P. Morgan,

25 Wall Str., New York.



Dear Sir:-

I have developed conjointly with another well-known practical engineer a novel system for the propulsion of vessels, in all important respects superior to any now in use. We eliminate virtually all moving machinery, reducing the whole apparatus to simple, stationary elements, apply the energy of the fuel more directly and with a minimum loss and complication. This means reduced cost of construction, much greater speed, cruising radius and carrying capacity. The system is readily applicable to an existing vessel at small expense and without material alteration, except for the removal of engines, boilers, condensers, smokestacks, etc.

I have never forgotten your generous help in the development of inventions which are so far in advance of time, that they have as yet brought no commercial returns. This is a peculiarly timely, strictly commercial engineering proposition, which should be of exceptional value in the present unsettled state of the art, and it is herewith respectfully submitted to you for refusal or acceptance on your own terms.

Yours faithfully,

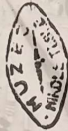
(signed) N. Tesla.

C
9
2 WALL STREET

New York, Sept. 30, 1905

Nikola Tesla, Esq.,
Waldorf-Astoria,
New York City.

Dear Sir:-



Referring to your letter of

29th inst., Mr. Morgan has carefully read
same but regrets he cannot do anything in
regard to the matter which is entirely
out of his line.

Yours truly,

W. H. P.

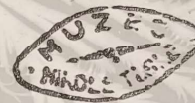
Private Secretary.

C a
25 WALL STREET

New York, Sept. 30, 1905

Nikola Tesla, Esq.,
Waldorf-Astoria, *
New York City.

Dear Sir:-



Referring to your letter of
29th inst., Mr. Morgan has carefully read
same but regrets he cannot do anything in
regard to the matter which is entirely
out of his line.

Yours truly,

A handwritten signature in cursive script, appearing to read "John D. Morgan".

Private Secretary.

11
New York, December 13th, 1905.



Mr. J. Pierpont Morgan,
23 Wall Street, City.

Dear Sir:-

Under enclosure please find Assignment of two patents which have just been granted to me and come within the terms of our agreement.

These patents describe an important discovery which I made in Colorado in 1889. Ordinarily the Earth responds very feebly and only locally to electrical disturbances much like the Ocean to a stone thrown into it. But there are certain waves to which the Earth is sympathetically responsive and when these are impressed upon it the globe as a whole responds very vigorously.

I take liberty, on this occasion, to tell you that I have just recovered from a severe illness which has brought more vividly to my mind the unfortunate state of affairs confronting me since three years. Just fourteen years ago I undertook to solve the problem of transmitting electrical energy without wires and in 1899, after spending a large private fortune, I finally succeeded in achieving what seemed impossible. As you will kindly remember, I approached you with a very easy and simple proposition of establishing telegraphic communication across the Atlantic, in the hope that I might later interest you in the transmission of power for industrial uses. Circumstances which we did not foresee made the original proposition impracticable and I adopted a plan which would make my success absolutely sure, irrespective of what might be developed by others and which would lay the

Folder 1012



foundation to a development commanding universal respect. You never advised me with one word and I did the best I could myself. The result has been that for want of a certain sum of money my work has remained, up to this day, unfinished. But despite all the unfortunate delay I could still return twenty times your investment if I could complete my plant, for then I would be able to send messages in type, in handwriting and by telephone to any part of the world. More than this, I could establish clearly the fact that with my system, energy in unlimited amount can be transmitted practically without any loss to any distance.

As you will see, Mr. Morgan, all depends on my being able to complete this work. To do this, more money is required. Whoever advances this capital must receive a fair interest. Consequently if there is such a person to be found it all depends on you for, as far as I am concerned I am satisfied with the smallest interest. I believe that I have found a man generous enough to advance One hundred Thousand Dollars. It is Mr. Frick, whom you well know. What has passed between us has impressed me with the feeling that he will certainly do it if I can only frame some kind of a proposition in harmony with you. I beg you to consider what the completion of this work means to me and to the world and act accordingly in your noble magnanimous way in which you have already assisted me and for which I am profoundly grateful.

Yours very respectfully,

100
100

Dec 14/05

My dear Mr Testa,



I have received your letter of 13th Dec. and in reply would state that I am not willing to invest any more money in the enterprise. I should be very glad if Mr Thirk would join you. You could have no better associates and I should be very glad to work with Mr Thirk in the matter, putting in what I have against his \$100,000 to which you allude.

Yours very truly,
 George W. ...



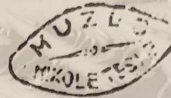
N. Testa Esq

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23 WALL STREET

Dec 14/05

My dear Mr Tesla,



I have received your letter of
13th Dec. and in reply would state
that I am not willing to invest
any more money in the
enterprise. I should be
very glad if Mr. Fick would
join you. you could have
no better associate and I
should be very glad to work
with Mr. Fick in the matter,
putting in what I have
against his \$100,000 to which
you allude.

Yours truly,
George F. Swann

N. Tesla
New York

4/05



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N. Tesla Esq
won't answer
by letter

Ms 981

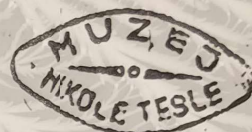
Anderson, Linda - Treasurer

Nikola Tesla

The Waldorf-Astoria
New York.

Dec. 15, 1905.

Dear Mr. Morgan,



I thank you a thousand
times for your very kind
letter received this morning.

You could not have given
me more pleasure if
you had inclosed your
check for the amount I need.

Pardon me for the
inconvenience I must have

could you by my letters,
but they ~~are~~ ^{are} ~~not~~ ^{not} ~~with~~ ^{with} ~~it~~ ^{it}
is ~~not~~ ^{not} ~~of~~ ^{of} ~~despondency~~ ^{despondency}
then the ~~friend~~ ^{friend} ~~has~~ ^{has} ~~been~~ ^{been}
be ~~too~~ ^{too} ~~to~~ ^{to} ~~hear~~ ^{hear},
I ~~feel~~ ^{feel} ~~that~~ ^{that} ~~the~~ ^{the} ~~friend~~ ^{friend}
since ~~coming~~ ^{coming} ~~the~~ ^{the} ~~very~~ ^{very}
happy ~~more~~ ^{more} ~~of~~ ^{of} ~~the~~ ^{the} ~~kind~~ ^{kind}
knowing ~~understanding~~ ^{understanding} ~~with~~ ^{with}
you. He is a ~~gentle~~ ^{gentle}
man ~~it~~ ^{it} ~~seems~~ ^{seems} ~~to~~ ^{to} ~~be~~ ^{be}
A ~~man~~ ^{man} ~~confident~~ ^{confident} ~~in~~ ⁱⁿ ~~him~~ ^{him}
with ~~which~~ ^{which} ~~you~~ ^{you} ~~have~~ ^{have}
known ~~me~~ ^{me}. I ~~am~~ ^{am} ~~very~~ ^{very}
~~with~~ ^{with} ~~the~~ ^{the} ~~hope~~ ^{hope} ~~that~~ ^{that} ~~you~~ ^{you}
but ~~as~~ ^{as} ~~you~~ ^{you} ~~are~~ ^{are} ~~so~~ ^{so} ~~kind~~ ^{kind}

Complete this work)
shall be able to perform
wonders which will astonish
the world. It
will not be difficult
to be found a company
of representative men and
get the capital in. If
and to. There can be no
doubt you like. I
~~shall be interested with~~
a very small interest will
be sufficient for me.
Hoping for all my

complete this work)
shall be able to perform
wonders which will astonish
the world. It

will not be difficult
to be free - a company
of representatives men and
get the capital in. If
and to. Trade can be taken
wherever you like. \$

~~shall be interested with~~

a very small interest will
be sufficient for me.
Hoping for all my

Love for your continued
health & well-being
& that of your family
I remain as ever your



Most faithfully

N. Tesla

2. I understand you should like
perfectly. You should recognize
the principles. Never in my
life have I known a man
who ~~can ever in a million~~
~~years~~ can ever in a million
years as near as you have
the state of justice: "Kann
Kann für alle das ist das
Mundstück, brechen,
das haben keine große Kraft ist
Gerade das was ich versprochen."

NOT OFFICIAL CORRESPONDENCE OF
THE MERCHANTS SAFE DEPOSIT CO.,
EQUITABLE BUILDING, NEW YORK.

Jan. 24. 1866.

Rev. L. L.

I have just learned that the
Germans have ^{commenced} ~~begun~~ the construction
of a plant ^{in all respects} similar to mine. I shall
they expect to complete in a year.
They would like to ^{first} establish a
trillion ^{garden} around the world
as a great ^{the system is a perfectly} ~~great~~ ^{and} ~~perfect~~ ^{Post}
Slate ^{is working} very hard to win
the prize. In Germany a number of
features of my system are
public property & ^{Prof. Schlegel} ~~the~~ ^{has} ~~been~~ ^{frankly}
acknowledged their indispensable use.
He is a thoughtful and skillful ex-
aminer & perfectly sure of success.
Mr. McKeon, you do not want
such a ^{valuable} ~~valuable~~ thing to happen. If
such will ^{will} ~~will~~ ^{can} ~~can~~ ^{be} ~~be~~ ^{done}
without delay.

~~My~~ my plan is quite by
July's end, Please see
how at your earliest oppor-
tunity, I have not much
~~more time~~ to lose.



Yours faithfully
N. Tesla

THE WALDORF

THE WALDORF-ASTORIA, NEW YORK.
THE BELLEVUE-STRATFORD, PRINCETON, N. J.



THE BELLEVUE-STRATFORD A



THE ASTORIA

New York Jan 6. 1911

MUZEO
PROLETARI

Dec. 2. 1891
 I have been thinking of writing you for some time but have been so busy that I could not find time. I am now in the city and have been very busy with my work. I have been thinking of writing you for some time but have been so busy that I could not find time. I am now in the city and have been very busy with my work. I have been thinking of writing you for some time but have been so busy that I could not find time. I am now in the city and have been very busy with my work.

you in good faith, a
Contract, and, having
performed my Part,
it is not unreasonable
that I expect you to
carry out yours.

Yours respectfully,
J. Pierpont Morgan
Pub. Sec. King
Private Secretary.



(Letter dictated by
Mr J. P. Morgan.)

you in good faith, a
Contract, and, having
performed my Part,
it is not unreasonable
that I expect you to
carry out yours.

Yours respectfully,
J. Pierpont Morgan
Pub. Sec. King
Private Secretary.



(Letter dictated by
Mr J. P. Morgan.)

NEW YORK CABLE ADDRESS "WALDORF, NEW YORK"
 PHILADELPHIA CABLE ADDRESS "BELLEVUE, PHILADELPHIA"



THE WALDORF

THE WALDORF-ASTORIA, NEW YORK.
 THE BELLEVUE-STRATFORD, PHILADELPHIA.



THE BELLEVUE-STRATFORD



THE ASTORIA

The Waldorf-Astoria.

New York Feb 6 1901



Dear D. L.

I am far from home and can't reply to you right now. I hope you are well and happy. I am very busy at present and can't write you more. I am sorry to hear that you are not well. I hope you will get better soon. I am very much interested in you and hope to hear from you again. I am very much interested in you and hope to hear from you again. I am very much interested in you and hope to hear from you again.

COPY.

Feb. 13, 1901.



Dear Mr. Morgan,

We are committed in an enterprise which must be carried to success for you as well as my own sake. It will if you will give me a reasonable foundation to build upon, to which I am justly entitled.

Will you agree, by letter, that in exchange for your patent interest you will take one-third of the stocks and bonds in Companies which I shall organize for the expoundations of my inventions in telegraphy and telephoning without wires and lighting by my system? I suggest one-third for you only, because it is essential for me to show others, that all are coming in on the same basis. If you will do this before sailing, you will give me a chance of putting my delayed projects through. You need not fear that anybody, with whom you would not care to associate, will get in. Out Caesar out Nilai is my principle. Please do not spoil the letter by an unnecessary reference to your unwillingness of furnishing more money. The whole town knows it.

Yours faithfully,

COPY.

New York, Feb. 16th, 1906.



N. Tesla, Esq.,
Waldorf-Astoria,
City.

Dear Sir:

I would say that I am quite prepared to take one third of any securities of any Company that you may be interested in, or under your control, as full settlement, so far as that particular Company is concerned, for my loan, provided there is secured other capital adequate for the purpose of carrying out the business.

Yours truly,

(Signed) J. Pierpont Morgan.

C O P Y.

173

Feb. 10, 1900.

Dear Mr. King,



My letter to Mr. Morgan yesterday was written in a hurry and needs amplification.

As you know Mr. Morgan owns an undivided patent interest in some of my inventions. He could go ahead without me, and so could I without him. This destroys the value of both the separate rights. To enlist new capital it is essential that our interests be merged. A statement from Mr. Morgan to this effect is therefore indispensable. Both the necessity and justice of this will certainly not escape him.

In proposing a third for him I can only hope to get for my parent Company--- the original owner of these franchises--- sixteen per cent, as the control will have to be surrendered to the new capital. My personal interest will consequently be small.

Will you kindly bring this before Mr. Morgan at a favorable moment to-day. Should he sail without doing any thing in this matter he would make me absolutely helpless.

Although one of Mr. Morgan's partners has told me that he is disgusted with me, I have never believed it. On the contrary I have always felt sure of his sympathy and feel all the more so now after passing through misfortunes the like of which can scarcely be found in history.

In granting my requests he will give me a chance. Only a slim one, unfortunately, for a project abandoned by Mr. Morgan is as dead as a door nail.

Yours very truly, N. Tesla.

THE WALDORF

THE BELLEVUE-STRATFORD



THE ASTORIA

New York 190

2.

112

~~The ... are not just ...~~
~~but I feel ... as it is ...~~
~~The ... are ... these ...~~

From the ...
So an ...
... the ...

the ... X ...
... the ...

... I ...
... I ...

... I ...
... the ...

... the ...
... the ...

... the ...
... the ...

Yours faithfully

x the plants ...
... for ...
... in ...
... in ...



Waldorf-Astoria
New York



Aug. 13. 1906.

Dear Dr. Hays -

And, especially, that you have by this time
attended to the most important business
~~which has been~~ which has been ~~arranging~~ forming copy
of papers the originals of which were
left with Dr. Ryer and which are self-
explanatory.

Since your departure I have been fortunate
enough to consult him and Dr. Schiff
intensely. I feel particularly gratified
albeit my problems are by no means
as yet solved, I have gone in the
past every dollar I could scrape
together and all my eggs are in
one basket. If I can complete it
I shall have a veritable lamp



Waldorf-Astoria
New York



Aug. 13

My dear Mr. [unclear]
The [unclear] [unclear]
[unclear] [unclear] [unclear]
[unclear] [unclear] [unclear]

of allusion shall not be
to be put on our own
of the matter, I do not suppose
I shall be a proper person
to do it, for I have been
too long in the country
country and myself.

With respect to the
pleasure of seeing you
again, which I have
been so long to see, I
am sorry I have not
been able to do so.
I am hoping that
you will be able to
visit me soon.
Yours faithfully
J. P. Taylor

The Waldorf-Astoria
New York.

Oct. 15, 1906

Mr. L. L. L.



It is absolutely necessary
to bring the following facts to
your attention.

~~You have been told in the papers~~
founded by you in the year
you have advanced \$100,000 towards
the establishment of a university for education
you are to receive an amount
of the thirteen to be received
of the program of the company
T. M. Hall and I have to be
presented as a donation of \$60,000
of which \$20,000 (Rye & Hall)

are quite sure while 25000 copy
 (Deborah) are fairly certain. But any
 the Rye and Pederson system that at
 every shell of them. Trueman
 combine in joined by system. Copy
 the Rye the study. Principles
 \$10000. These last ones are
 devoted to the most pressing business
 work. My whole name is 3/
 hidens ~~board~~ ~~must~~ ~~that~~
~~like to get well along~~ ~~my~~
~~hope more for the future~~ ~~my~~
~~work to be done~~ ~~after~~
 2/ The other \$50000. Much a
 the ~~has~~ ~~formed~~ ~~to~~ ~~by~~ ~~you~~
 system of ~~clear~~ ~~system~~ ~~will~~ ~~very~~
 appear in a Company ~~that~~ ~~rich~~
 shall form for this purpose ~~to~~
 soon as I am out of the house ~~but~~
 I am convinced that ~~the~~ ~~to~~

1900-1904
 Folder 1042
 Folder 17

1000 copy I shall be able to
 make up to give you one that
 that at the end of the copy & good
 sum of money & besides the
 copy taken by your generous interest.
 1/8
 the few repairs to the same
 have not been the intended lamp.

3) I have designs - very
 elaborate for birds &
 my relation with Rich &
 otherwise you might see
 a certain improvement
 you will be surprised to see
 very expensive of great price
 Rich. I. for the word is to
 to him is. I mean to show the
 but I am a singular copy
 to send to the door while

Folder 1012



3) Returns I want 17
Frank.
If you want to see me. I
very opposite of you is in them.
To you the word is in a
he is I mean nothing. There I
had he feel you are with
many for do not he better
not necessarily. He said he was
sorry and that you had some and
ought to know it. I mean
now tell you that I have almost
nothing to say.

The Waldorf-Astoria
New York.

~~The present country is the first in
all of dealing with the
I am glad to see that the
interest in the
strange machine
by which the~~



By which I have to state
in my statements to express
I have the highest regard for
you as a big and honorable
man as the man who has
to explain he is the man
who has given the world
the most valuable gift of the
of my country I am sure
to see a surprise for them
more than

years I am from an old
 thing ^{which} ~~there~~ ^{has} ~~been~~ ^{along} ~~under~~
 a ~~the~~ ^{promising} ~~in~~ ^{that} ~~place~~
 is ~~just~~ ^{from} ~~in~~ ^{the} ~~camp~~ ^{of}
 of a ~~flower~~ ^{the} ~~in~~ ^{the} ~~rep~~
 far of a ~~beaver~~ ^{There}
~~as~~ ~~and~~ ~~as~~ I ~~shall~~ ^{choy}
~~be~~ ~~say~~ ^{But} ~~it~~ ~~is~~ ^{Car}
 by ~~day~~ ^{to} ~~tell~~ ^{you} ~~over~~ ^{here}
 now ~~that~~ ^{under} ~~you~~ ^{for}
 keep ~~me~~ ^{hopeful} ~~fulfilling~~ ^{me}
~~with~~ ^{desired} ~~under~~ ^{the}
~~and~~ ^{our} ~~first~~ ^{project}
 with ~~many~~ ^{difficult}
 by ~~be~~ ^{proper} ~~and~~ ^{it}
~~and~~ ~~to~~ ~~in~~ ~~of~~ ~~my~~
~~can~~ ^I ~~have~~ ^{already}

Nikola Tesla Correspondence - 1900-1904

Folder 1042

Box 8
 Folder 17

her place on your hands
 before you are in ~~proper~~
 in ~~order~~ ^{for} myself ~~expressed~~ ^{being}

C. Gray encephalus resubus

supposed it is like case off

~~And in the next~~

I am quite satisfied with your good
~~work~~ ~~and~~ ~~very~~
~~much~~ ~~in~~ ~~attention.~~ H

2. ~~There has been a~~
 nearly over - kept under

2. a barrel all in the
I will for the first time

I have reported several persons
to our dear ~~Society~~ ~~Thy~~

~~Left~~ I am much
Yrs and the best love,

[Handwritten signature]



The
 all
 2
 m
 m
 5
 3
 2
 2
 2
 6
 6
 2
 2
 2

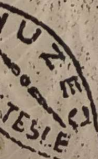
The Waldorf-Astoria
New York.

Nov. 23 1906

Dear Dr. Hays,



You know the war has
come out in
a drawing. The despite all
difficulties I can do
I can still manage. I can
not only I can do
with the help of my
perhaps, according to the
time in which
the time of the present
and the future.



1900-1904

Folder 1012

Folder 17

I have been for the last 2 days
returning from a short trip to the
mischievous me. But in the
and to the fact
conscience for the to fact
that you have to me
the first person in the
position to bring the following

to the report to the
and the fact that the
the report is true but the
own to the
in all its features
to the fact that the
to the fact that the
to the fact that the

MS 781

Nikola Tesla Correspondence - 1900-1904

Folder 1052

Folder 17

[illegible]

De.

22

22

22-39

24

Folder 1 of 2

127


* The under clothing
of the same moral caliber.

The price of every thing
 and by the way
 a purchase of
 by the way of money

1. *Handwritten scribbles and marks*
 2. *Handwritten scribbles and marks*
 3. *Handwritten scribbles and marks*

~~Handwritten text, possibly a signature or name, crossed out with a thick horizontal line.~~

100



~~Tezzeret~~

There is nothing in London,

but the most perfect of the

most perfect of the

most perfect of the

most perfect of the

I don't believe

in any

more

in the

most perfect of the

the

most perfect of the

the

the

the

the

the

[Faint, mostly illegible handwritten text, possibly in Cyrillic, covering the page. Some words like "Суд" (Court) and "дел" (case) are visible.]



Folder 1042

broad principle with various
 number of special features, in
 the present I have not been
 able to find any other instance
 where all the conditions present
 the result. There are also
 the various plants which are
 than one kind have also
 they are all of the same
 kind of species to be very light
 on the ground. Reproduction
 of the young is in the form of
 I am, the first, with
 of the same kind in the
 form of the same kind of
 reproduction of the same kind.
 In due course I shall
 send you a copy of the
 U. S. Congress and the
 Parliament.

MUZEJ
 NIKOL TESLE

De

2

22

20

10

7

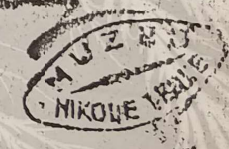
Am.

MUSEUM
NIKOLAJEVSK

Michael Tasa Correspondence - 1900-1904

Box 8
Folder 17

~~The house is on a hill
 a large, white, two-story
 house with a porch. The porch
 is on the side of the house
 and is covered by a large
 porch. The house is built
 of stone and has a large
 chimney. The house is
 surrounded by a large
 garden. The garden is
 filled with flowers and
 trees. The house is a
 very nice house.~~



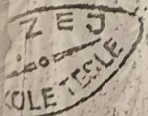
The house is on a hill
 a large, white, two-story
 house with a porch. The porch
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 and is covered by a large
 porch. The house is built
 of stone and has a large
 chimney. The house is
 surrounded by a large
 garden. The garden is
 filled with flowers and
 trees. The house is a
 very nice house.



The Waldorf-Astoria
New York.

at present. My plant could
carry over ten thousand
dollars a day for it will
be a truly successful
and many quarters just before
the end of the year.

My plant is a high home
a running. But our only
best and best of all is
that it is a very
good and very good
and very good.



My plant is a high home
a running. But our only
best and best of all is
that it is a very
good and very good
and very good.

My dear friend, the
 of the
 and
 on
 of
 ad
 to

6) *Remains as I*
have *supposed the*
same *kind* *in*
the *same* *place*
as *the* *one*
found *in* *the*
same *place* *as*
the *one* *found*

The person of the father
 of 7 children. Closed
 in 1899. Now 1/2 been
 returned to the per-
 mitted legal delays as
 the father thought he found
 all the way to be taken out.
~~nothing was done~~
~~and from the other side~~
~~was in fact to be taken~~
~~on the matter and the~~
~~person to be taken~~
~~from right to be~~
~~called to be taken~~
~~with the same~~

UZ
 MIKOLET

UZ
 MIKOLET

Nikola Tesla Correspondence - 1900-1904
 Folder 1 of 2

Box 8
 Folder 17

The Waldorf-Astoria New York.

Sept 27 1897



Dear Sir,

I am very glad to hear from you.

As to the wireless power system
I have long ago given up the idea of
transmitting power by means of
air propagation in electricity, others
have done so. It is possible to transmit
a large charge of electricity in large, it is
impossible to transmit a low electric tele-
phone or a low telegraph system of
wires. The fundamental principle
of this is to have evolved

The cable system did not

work as planned. The system of power cables
is not suitable for the transmission of power

The first thing I noticed when I stepped
 out of the car was the cold. It was a
 sharp contrast to the warm blanket I had
 been wrapped in. The air was crisp and
 clear, and I felt a sense of freedom.
 I had been told that the weather was
 perfect, and I was not disappointed. The
 sun was shining brightly, and the birds
 were singing. It was a beautiful scene,
 and I felt like I had found a new world.
 The people were friendly and welcoming,
 and I felt like I had found a new home.
 The food was delicious, and the music was
 wonderful. It was a perfect day, and I
 felt like I had found a new world.

The Waldorf-Astoria
New York.

Dec. 12, 1907

Mrs. Dr. Meyer,



I would not describe you as
you are and understand the nature of
it is an absolute necessity to
bring the matter to your notice.

1. There is a paper property that
a publication has taken on a scientific
movement. This is demonstrated by
the numerous publications of the Board, for
the past many years.

2. I am the first to receive
these reports on all matters and
essential to the
science of the world. I believe
and believe in the future.

3. To prove my statement I have
found many and found in this branch.

1. I am extremely sorry to hear that you are
ill and hope you will be able to return soon.
I am sure you will be able to do so.
I am sure you will be able to do so.

4. My explanation is that I am unable
to do so. I am sure you will be able to do so.
I am sure you will be able to do so.
I am sure you will be able to do so.

5. The time is now and I am sure you will be able to do so.
I am sure you will be able to do so.
I am sure you will be able to do so.
I am sure you will be able to do so.

Respectfully,
Your obedient servant,
J. H. [Signature]

11/18/18 (11/18/18) NIKOL TEST Correspondence - 1907-1934 Folder 18

COPY.

Waldorf-Astoria,
New York, Dec. 18, 1907.

Mr. W. C. King,
23 Wall Street,
New York City, New York.



My dear Sir:

Acting on your suggestion I made my letter to Mr. Morgan with reference to patents as short as possible, but that made it necessarily incomplete. As I am anxious not to disturb him I would ask you to kindly bring the following, at the earliest propitious moment, to his attention.

The value of patents is not so much dependent on the commercial success of the original invention as on the general development of the art. Whoever succeeds commercially is bound to put his business under the protection of the controlling rights for the simple reason that he can make more money in this way than by fighting. Besides, it is a matter of principle. A competent business-man is not disposed to devote himself to an undertaking with the sword of Damocles constantly above his head.

Now I have in the U. S. Patent Office since four years several inventions which should be protected in the foreign countries without delay. They are of the greatest importance and value. It would be difficult to explain them in a short letter, but just to convey an idea of one suppose that all boilers heretofore made were of a material full of holes through which steam would escape so that the most furious fire would not raise but a feeble pressure. My discovery enables me to make the boiler absolutely tight and get any pressure I may want. Only in this way it is possible to get some of the results I published in 1900 (experiments I performed in 1899), and only so can a plant be made to carry a voice, say, across the Atlantic. As I wrote Mr. Morgan three years ago my present plant will transmit speech over the Pacific with equal facility.

I would like Mr. Morgan to feel that I am not actuated by my own financial interest but only by the desire to achieve for his sake. What little money is needed he might perhaps advance simply as a small loan to the Company. Five thousand dollars (\$5000) would be ample provision for all

W.C.King--2

expenses during the next few months. Treasury shares might be pledged until we get some returns. The shares cost at present \$175.00 in actual cash expended. So far I know only a few of my own have been disposed of at that figure.

Under inclosure I forward a letter, one of many evidences on this nature, which please return.

Yours very truly,



COPY.

Waldorf-Astoria,
New York, Dec. 22, 1907.



Mr. W. C. King,
23 Wall Street,
New York City, New York.

Dear Mr. King:

Your letter relieves me, at least, on an harassing responsibility, but that is an unusual attitude to assume for a man of Mr. Morgan's broad views.

In all I attempted for the past few years I have encountered a strange and firm resistance. Mr. Morgan will rather have the property go to the dogs than to help. I think I understand!

Yours truly,

June 9, 1908.

Messrs. J. P. Morgan & Company,
23 Broadway,
New York City.



Gentlemen:--

Some crank has forwarded letters addressed to me to
your care, which have reached me apparently through your courtesy.

You will greatly oblige me if you will henceforth throw
such letters in the waste-paper basket, where they belong.

Very truly yours,

(COPY)

Waldorf-Astoria Hotel, March 31, 1913

J. P. Morgan & Co.,
27 Wall Street,
New York, N. Y.

Dear Sirs:



Please accept my heartfelt condolences on the death of the great man who was the head of your famous firm. When I can feel such a void in my heart and brain at the passing of Morgan I can appreciate, in a measure, the depth of feeling of those who were his lifelong comrades.

The loss is irreparable but I hope that his wonderful mind will further guide your house and that it will continue an example of banking on the highest plane, for the honor of the country and benefit of the whole world.

Believe me,

Very truly yours,

(Signed) N. Tesla

ANDERSON, Leland - Archival and Manuscript Collections - Library of Congress - John Pierpont Morgan
(Dr. and Sr.) Nikola Tesla Correspondence - 1907-1934
Box 8
Folder 8

J. P. MORGAN & CO.
Wall St. corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORRIS, GRENPELL & CO.
London.
MORGAN, HARVEY & CO.
Paris.

New York, April 1, 1915.

Nikola Tesla, Esquire,
1 Madison Avenue,
New York City.

Dear Sir:



We beg to thank you for your courteous
note of condolence and to express our gratifica-
tion at the tribute which you pay the memory of
our honored and beloved chief and our profound
appreciation of your sympathy in our bereavement.

Very truly yours,

J. P. Morgan

NEW YORK—PHILADELPHIA,

April 22, 1913.

Dear Sir:

It is with the deepest regret that we are called upon to announce the death of our beloved senior partner,

Mr. J. PIERPONT MORGAN,

which occurred at Rome, Italy, on the 31st ultimo.

In accordance with the co-partnership agreement and testamentary dispositions, the business will be continued without any change, the estate of the late Mr. MORGAN continuing his interest as heretofore.

We desire to avail ourselves of this opportunity to acknowledge with warm appreciation the numerous kind expressions of sympathy which we have received from the many personal and business friends of our late partner.

J. P. MORGAN & CO.

DREXEL & CO.

37 EAST THIRTY-SIXTH STREET

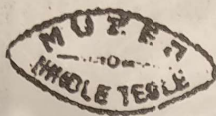
Sunday, April 13/13



Dear Mr. Tesla -

I have only three
cards for the gallery left and
take pleasure in sending you
one. I am sorry that at
this late hour, I have no
letter sent for you.

Very sincerely yours
Herbert L. Satterlee



219 MADISON AVENUE

Mrs. Morgan and her family
beg to thank Mr. Tesla
for the sympathy shown by
his beautiful gift of flowers.

Funeral Service of the late J. Pierpont Morgan, Esq.

ST. GEORGE'S CHURCH

Stuyvesant Square and East 16th Street

Monday, April 14th, 1913

Please present this card between 9 and 9.45 a.m.

GALLERY





219 MADISON AVENUE

Mrs. Morgan and her family
beg to thank Mr. DeLa
for the sympathetic shown by
his beautiful gift of flowers!

Funeral Service of the late J. Pierpont Morgan, Esq.

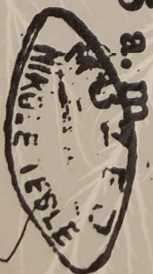
ST. GEORGE'S CHURCH

Stuyvesant Square and East 16th Street

Monday, April 14th, 1913

Please present this card between 9 and 9.45 a.m.

GALLERY



23 WALL STREET

N.Y., May 14, 1913.

N. Tesla, Esq.,
202 Metropolitan Tower,
1. Madison Avenue,
New York.

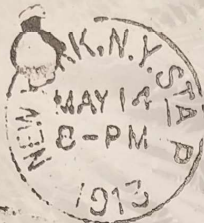
Dear Sir:

I am directed by Mr. J.P. Morgan
to say that he has your letter of
yesterday and that he expects to be
at the office all next week and will
be glad to see you if you call.

Yours very truly,


Secretary.

156



N. Tesla, Esq.,

202 Metropolitan Tower,

1, Madison Avenue,

New York.

No.

If not delivered in five days
return to

J. P. MORGAN & CO.
NEW YORK

P. O. Box 3036



202 Metropolitan Tower
May 13, 1913

J. P. Morgan, Esq.,
c/o Messrs. J. P. Morgan & Co.,
3 Broad Street, City.

Dear Mr. Morgan:

Respect for your sorrow has kept me from writing before this and asking the favor of a short interview.

I am very anxious to see you in regard to some matters of importance and will be much obliged if you will kindly appoint a meeting at your convenience.

Very truly yours,

202 Metropolitan Tower, May 19, 1913

Dear Mr. Morgan:

Realizing the great demands upon your time I am enclosing a few short statements, bearing on the subject of our discussion, for perusal at your leisure.

As you may know, it was my good fortune to discover an electrical principle which has been universally adopted in the transmission of power and in which incalculable capital is now invested. My present invention is, I believe, still more important and valuable.

It is my firm conviction that this new principle is destined to work a tremendous revolution and that not one of the present forms of apparatus used in the production of mechanical power will remain. Its application to the manufacture of iron and steel, alone.



will yield a new revenue of \$100,000,000 a year through the utilization of the waste heat and other economies, and it will have a similar effect on ship propulsion, railroad-automobile, and many other large industries.

Knowing this as I do, not merely as an expert but as a seer, you may judge how anxious I am, for the sake of the world, to connect myself with a man of your integrity and power to whom I am attracted by sympathy and esteem.

Yours very sincerely,

J. P. Morgan, Esq.,
3 Broad Street,
New York, N. Y.



\$ 15000 ⁰⁰



New York, May 20 1913

Bene I promise after date I promise to pay to
the order of J. P. Morgan & Co.

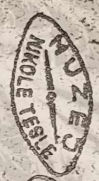
Fifteen Thousand ⁰⁰/₁₀₀ Dollars

at this office 15 Broad Street New York City

Value received 6% interest per annum

No. Due ¹¹/₁₀₀ Till

\$ 1000.00



New York City May 20 1913

Have received a promise to pay to

the order of J. P. Morgan & Co

Eighteen Thousand ⁰⁰/₁₀₀ Dollars

at the office of the Great Trust New York City

Value received 6% interest per annum

No. Due

Sam. LeLand - Ardura and Manuscript Center (Dr. and Sr.) Nikola Tesla

202 Metropolitan Tower, May 20, 1918

My dear Mr. Morgan:

Please accept my sincere thanks for your generous loan. I feel happy to have enlisted the interest of so big-hearted a man.

After a careful review of the situation I shall make a clear statement, setting forth the propositions which I have put before you today.

With renewed thanks and expressions of high regard, believe me,

Faithfully yours,



J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

208 Metropolitan Tower
June 6, 1918.

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

Dear Sir:



Under enclosure please find statements concerning two groups of my inventions, respectively, in the wireless art and fluid propulsion.

As regards the first, I had the great honor of associating myself with your father. Needless to state that he carried out his promise to the letter, generously advancing one hundred fifty thousand dollars, but others deserted me. Although I managed to raise by personal sacrifices an additional capital of over two hundred thousand dollars, it was not enough to complete my project and I was compelled to devote myself to other inventions which I am glad to say are now perfected and ready for commercial use.

In either of these fields in which I have the good fortune to be a pioneer the possibilities are immense and I can vouch for the fullest success, but my appeal for your support is on a higher plane.

In brief, my interest is controlling in the first group of inventions; in the second, I have 50% clear and have secured by option an additional interest.

The proposition which I would respectfully submit is to organize two companies and to turn over to you my entire interests in both, of which you may accord me such a part as you choose which, moreover, will be honorably pledged to yours so as to enable you to carry out any plan of policy you may deem best.

Hoping that you will do me the honor shown by your father and assuring you of my gratitude and high regard, I remain,

Yours faithfully,

23 Wall Street.
New York.

June 11th, 1913.

My dear Mr. Tesla,

I am greatly impressed by your letter of June 6th, but could not, of course, consent to your doing as you suggest, that is, turning over to me your entire interest in the two companies which you propose to organize. I wish to make a counter suggestion in that connection, which is that you should proceed to organize your companies, and, if and as they work out, repay to Mr. Morgan's Estate, either in securities or in cash, the money Mr. Morgan advanced, as may be best arranged at that time. It seems to me that you are entitled to the profits on these companies, but that Mr. Morgan would, in strict justice, be entitled to a return of his money if it could be arranged.



I presume that all this does not have any connection with the turbine matter in regard to which we talked the other day.

Yours very truly,

J. Morgan

Mr. Nikola Tesla,
202, Metropolitan Tower,
New York City.

(COPY)

1 Madison Avenue, June 15, 1913

My dear Mr. Morgan:

Many thanks for your extremely kind letter which I value very much as evidence of your sympathy and appreciation of my work..

It is clear to me now that you are moved by the same great spirit of generosity which has animated your father and I am more than ever desirous of enlisting your interest and support in these important advances, knowing that the world will then see their full possibilities. Destiny has placed you in a position of great power and influence and here is a wonderful opportunity.

As for myself I contemplate more than financial success. Ten years ago I wrote to Mr. Morgan:..."I shall speak your name in the telephone and it will be repeated loudly, everywhere in the tone of my voice. This I have conceived as a means for acquitting myself fittingly of my debt to you." A great monument will no doubt be built to Mr. Morgan but none in marble or bronze could be as lasting as the achievement which I have proposed to link with his memory.

I must not have been quite explicit in my letter of the 6th inst. Permit me to explain that the statements submitted to you deal with two groups of inventions in entirely different fields - in "wireless" and "fluid propulsion." The turbine is only a special case in the latter group. They are of great and already established value and I sincerely hope, in a higher interest, that you will look favorably on my proposition.

Believe me,

Ever yours faithfully,

(Signed) N. Tesla



23 Wall Street.
New York.

June 17th, 1913.

My dear Mr. Tesla,

I have your letter of the 15th instant, and am much obliged to you for the offer. I cannot, however, accept the proposition which you make, as I have told you, but I hope that you will be successful in your efforts, and shall of course be very glad if you are able, later on, to return to Mr. Morgan's estate the money which Mr. Morgan advanced you in connection with your "wireless" work.

Yours very sincerely,

J. P. Morgan

Nikola Tesla, Esq.,
1, Madison Avenue, City.



MS 481

(Dr. J. P. Morgan Sr.) Nikola Tesla Correspondence - 1907-1934 Folder 18

Sent to Mr. Morgan the following:

Letter rec'd from Mr. Lowenstein in re Elec.meeting.

Copy of Century Article, 1900

Copy of Electrical World Article, 1905

and the comment from leading German technical papers:

"This is a blending of the grandest
technical accomplishment with the most
vivid imagination such as perhaps has
never before manifested itself in the
human mind."

June 19th, 1913



202 Metropolitan Tower
June 19, 1913



My dear Mr. Morgan:

We are but cogwheels in the mechanism of the universe and it is probably an unavoidable consequence of the laws governing that the pioneer, who is far in advance of his age, is not understood and must suffer pain and disappointment and be content with the higher reward which is accorded to him by posterity.

I was chosen to give to the world the wireless art - not an insignificant improvement like Hertz-Wave Telegraphy - but the greatest invention of all times, a realization of the Lamp of Aladdin which gives magical powers to Man. Ten years ago all the experts condemned my efforts as visionary and even my most successful follower emphatically declared that it would take centuries before such a wonder as the wireless transmission of a message across the Atlantic would be accomplished. So it comes that to this day the public has not even a faint conception of what can be done by properly designed apparatus and its skillful manipulation. The enclosures which I take the liberty to forward will throw a little light on the subject and show how much my work of thirteen years ago was ahead of the very latest achievements.

In mechanics I am making a similar experience. Seven years ago I satisfied myself that the new principle of fluid propulsion which I had discovered would work a tremendous revolution. My first announcements met with the usual skepticism. Wellknown engineers were of the opinion that a machine on my plan would not work at all. When I finally managed to produce a turbine not bigger than a hat, developing one hundred horsepower, I merely transformed the resistance of ignorance into one of cunning opposition. If I continue alone, years

may pass before I can see the full fruition of my labors. If I seek a powerful alliance, I shall have to make the same sacrifices as in my system of transmission of power by alternating currents when I gave away with one signature an immense fortune and a commercial asset, the value of which cannot even be estimated.

I wish to thank you for your very kind letter of the 17th inst and to express the hope that you will conserve the friendly interest you have manifested until I complete the machines I am now constructing, when I shall be able to give you a striking demonstration and perhaps submit some other proposition which might be acceptable to you.

Believe me,

Yours most faithfully,

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.



\$5000



July 23 1913

On July 20, 1914 after date I promise to pay to
the order of J. P. Morgan & Co. Five thousand

Dollars
at office of J. P. Morgan & Co. 15 Broad St. New York City
Value received with interest @ 6%

No. Due et hanc Tolls

The Brown-Green Co. 40 John St. N.Y.



\$500.00

July 23 1913

including 20, 1914 after date of promissory note

The order of J. H. Thompson & Co.

Five thousand dollars

at place of purchase, 15 August 1913

Delivered with interest @ 6%

Chas. T. Tols

The Brown Green Co. 40 Main St. N.Y.

2

1

MS 491

Anderson, Leland - Advertiser and...

(Dr. and Sr.) Niles

July 23, 1913

Dear Mr. Morgan:

When I asked you for a large loan recently and you offered me more, my appreciation of your bigheartedness was scarcely equal to my resolve not to abuse your rare generosity. I was all the more anxious to work out the solution of my problems with what funds I had available as I knew from your published statements that these are trying times which must tax to the utmost your own resources.

But since our last meeting new situations have presented themselves and unforeseen events have occurred which necessitated larger expenditures in the interest of the business I am developing. I shall soon have results which, I trust, will be of such value as to make you feel that your vigorous timely assistance was well deserved.

With expressions of deep regard, believe me as ever,

Yours faithfully,



(Signed) H. T.

202 Metropolitan Tower

August 21, 1913

Dear Mr. Morgan:

I am forwarding photographs of one of the machines which your generous assistance has enabled me to construct and which I am expecting soon to have in running order.

This is an invention of the greatest commercial value, sure to create an industrial revolution, and I hope that you can be persuaded to take it into your strong hands not only for my sake but for the general good. It will give you additional power and influence in affairs which, vested in a man of your lofty principles, can only be for the best.

Please do me the favor of reading the enclosed statements of a leading electrical engineer which will convey to you an idea how anxious I am to reach quick results in order to complete the undertaking which I have begun with your father and show to the world the full possibilities of my wireless inventions.

Yours very sincerely,



J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

23 WALL STREET
NEW YORK

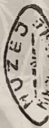
August 25th, 1913.

Nikola Tesla, Esq.,
202, Metropolitan Tower,
New York City.

Dear Sir,

Mr. J. P. Morgan

directs me to thank you for your
letter of the 21st instant, which
he has read with interest; also for
the photographs which accompanied
your letter.



Yours very truly,

Secretary.



23 WALL STREET
NEW YORK

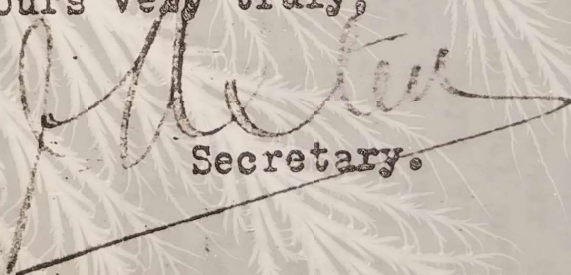
August 25th, 1913.

Nikola Tesla, Esq.,
202, Metropolitan Tower,
New York City.

Dear Sir,

Mr. J. P. Morgan
directs me to thank you for your
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he has read with interest; also for
the photographs which accompanied
your letter.

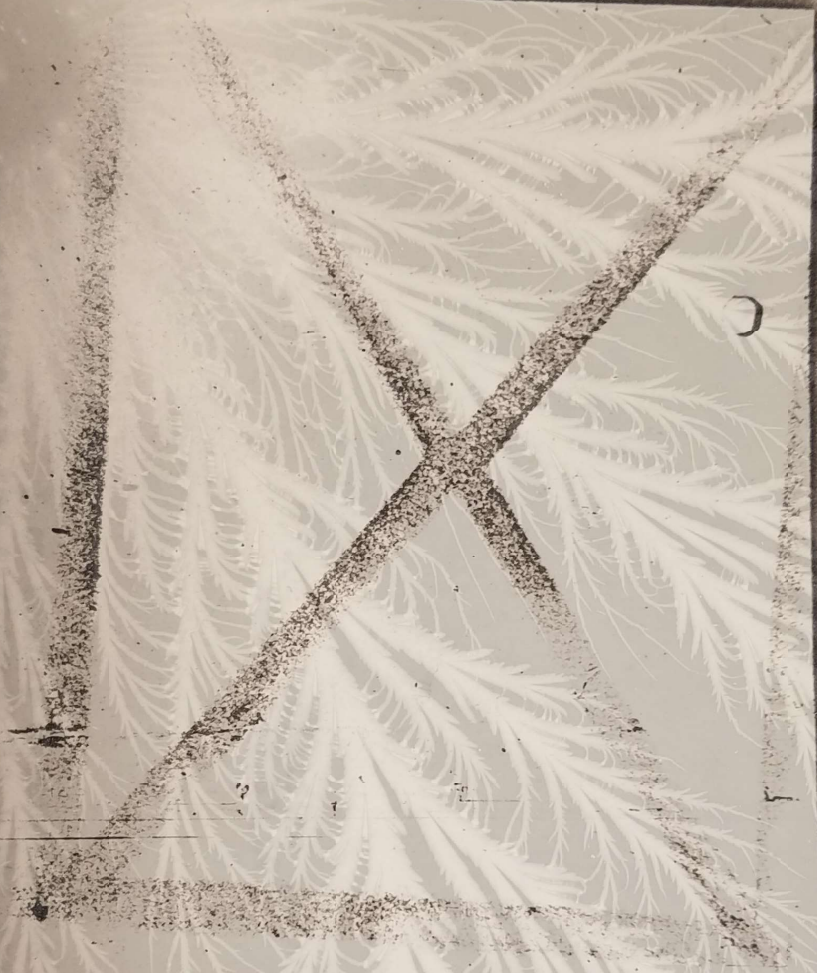
Yours very truly,


Secretary.

, 1913.

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[Handwritten signature]
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202 Metropolitan Tower
September 11, 1913

Dear Mr. Morgan:

I am keenly disappointed to learn that you are sailing on the sixteenth as I had expected to show you one of my machines at the Edison Plant where it will be shortly installed.

Please note article under enclosure. Most of this huge capital will be invested in my system of power transmission. Yet I firmly believe that the new mechanical principle which I am now bringing out will prove still more valuable commercially. In view of this I would feel happy if some proposition could be framed which would be acceptable to you and under which you would have the full control. Would you not be willing to come to a general understanding in this regard and leave the adjustment of the details for the future, at your pleasure and convenience? I could, in the meantime, establish a profitable little business with small capital and some of my larger projects already started would by that time materialize and bring results deserving your attention.

Hoping from all my heart that you will look favorably on this suggestion and awaiting your kind reply, I remain, with expressions of high regards, as ever



Yours faithfully,

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

2

23 Wall Street.
New York.

September 12, 1913.

Dear Mr. Tesla:

I have your letter of yesterday, but, in the pressure of work preparatory to leaving, it is impossible to take up the matter you write about, especially as I shall not be at the office after today. Perhaps when I return some time in December, it will be possible for me to go into the question.

Yours very truly,

J. P. Morgan

Nikola Tesla, Esq.,
202 Metropolitan Tower,
Madison Square,
New York.

September 15, 1913

Dear Mr. Morgan:

Please accept my sincere thanks for your kind and much valued letter. It would give me the greatest satisfaction to be associated with so splendid a man.

I shall look hopefully to your return and trust that I will be able to solve the problems confronting me until then.



With best wishes for a happy voyage, believe me,

Most faithfully yours,

(Signed) N. Tesla

22 Old Broad Street,
London September 23, 1913.
E.C.

Dear Mr. Tesla,

Thank you for your note,
and for the books which you so kindly
sent me for the voyage.

Yours very truly,

John Pierpont



Nikola Tesla, Esq.,
Metropolitan Tower,
New York City.

Anderson, Leland - Archival and Manuscript Collections - Library of Congress - John Pierpont Murdock
McC 491
(Mr. and Mrs.) Nikola Tesla Correspondence - 1907-1934
Box 8
Folder 18

22. Old Broad Street.
London E.C. September 23, 1913.

Dear Mr. Tesla,

Thank you for your note,
and for the books which you so kindly
sent me for the voyage.

Yours very truly,

J. Murray



Nikola Tesla, Esq.,
Metropolitan Tower,
New York City.

1913.

note.

kindly

ANDERSON, Leland - Atchafalaya and Manuscript Collections - Library of Congress (Dr. and Sr.) Nipkow

(Copy)

December 23, 1913.

Dear Mr. Morgan:

During your absence I have used my limited wits and resources the best I could with the following results:

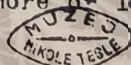
- 1) Agreement completed with the Bergmann Works (one of the largest concerns in Germany) on good royalty basis. Very valuable.
- 2) Sale of exclusive license for Belgium through the adviser of the King. The former Prince Albert knows me personally and takes great interest in my work. Payment \$10,000 cash and fair royalty.
- 3) Concession for Italy through an associate of Crispi. Payment \$20,000 and royalty. Not yet consummated.
- 4) Exclusive license for the United States to the Wing Manufacturing Company for turbo draught blowers. Royalty with guaranteed minimum. Manufacture started.
- 5) Exclusive license for train lighting to Dressel Railway Lamp Works. Royalty and guaranteed minimum. Consummated.
- 6) Agreement for automobile lighting with engine exhaust gas. Royalty basis. Manufacture started.
- 7) License for limited use of my wireless system on royalty basis. Apparatus has been installed on several battle-ships.
- 8) Agreement with L. C. Tiffany (Tiffany Co.) on new invention. Percentage of manufacturer's selling price. Work started. Excellent chance.
- 9) Prospective agreement with Mr. N. F. Brady of the Edison Company in regard to the manufacture of turbines. Very good chance for big business.
- 10) Number of other propositions more or less developed. Some important.

As you see, Mr. Morgan, here are decidedly valuable results very gratifying to me but, on the other hand, I am almost despairing at the present state of things. I need money badly and I cannot get it in these dreadful times. You are about the only man to whom I can now look for help. I have stated my case.

With best wishes for a happy Christmas, I am, as ever,

Yours gratefully,

J. P. Morgan, Esq.,
15 Broad St., City



New York, December 24 1913.
Nikola Tesla Esq.



J. P. MORGAN & CO.,
WALL AND BROAD STREETS.

6%

Interest from May 20 to Dec 31 on	\$5,000	552. 50
Do. July 23 to Dec 31 on	5,000	131. 67
		<u>\$684.17</u>



Nikola Tesla

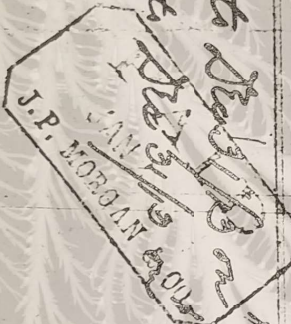
New York, December 31 1913.



J. P. MORGAN & CO.,
WALL AND BROAD STREETS.

6%

Interest from May 20 to Dec 31 on \$15,000. 552. 50
Do. July 23 to Dec 31 on 5,000 131. 67
\$684.17



MS A 91

Andersen, Leland - Arduua and Manuscript Collections - Library of Congress (Dr. and Sr.) Nikola

J. P. MORGAN & CO.
Wall St. corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, GRENFELL & CO.
London.
MORGAN, HARJEN & CO.
Paris.

New York, December 24th, 1913. D



Nikola Tesla, Esq.,

202 Metropolitan Tower,

23rd St. & Madison Ave., N.Y. City. }

Dear Sir:-

Enclosed please find memo. of interest to December 31st, 1913, on your loan. We should be pleased to receive your check for same on or before that date, when we close our books for the year.

Yours very truly,

Enclosure

202 Metropolitan Tower
December 29, 1913

Dear Mr. Morgan:



As stated in my letter of the 23d inst., I have already started a very profitable business which will yield in a short time a liberal income but my present situation gives me considerable anxiety.

I am just now installing a large turbine at the Edison Plant preliminary to its shipment to the Bergmann Works in Germany where it must be delivered in January. My contract with this firm is of the greatest consequence to me as it should be worth at least \$100,000 annually on the basis of the royalties stipulated. Other great German manufacturers are expected to join in the exploitation and even the Kaiser is interested. His Majesty and the Empress honored me some time ago with invitations to Berlin of which, unfortunately, I was unable to avail myself. I am preparing to make demonstrations to Mr. Brady with this turbine, confident of convincing him that in adopting my invention the New York Edison Company could save one-third on their fuel bill. As soon as I have reached a conclusion with him I shall be in the position to put before you a proposition which I trust you will consider favorably.

In connection with the contracts already undertaken and other pending negotiations, I am constructing model machines and developing plans calling for constant outlays. Furthermore, I have to defray numerous patent fees, workings and legal expenses and have also to meet before December 31st the interest on my notes for your generous loan of \$20,000.

If you will kindly grant me another small loan and extend the old one to the 1st of May, I shall make an earnest effort to remit as fast as money is received until I have either acquitted myself of the debt or some other agreement is reached.

Assuring you that I shall deeply appreciate your friendly help in these terrible times, I remain, as ever

Yours most faithfully,

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

202 Metropolitan Tower
December 31, 1913

Messrs. J. P. Morgan & Co.,
15 Broad Street,
New York, N. Y.

Gentlemen:



Replying to your favor of December 24th, I regret very much that owing to an unforeseen circumstance check for \$684.17 (interest due on my loan to December 31st, 1913) will not reach you before Friday.

Asking you to kindly excuse the delay, I remain

Very truly yours,

23 Wall Street.
New York.

January 2nd, 1914.



N. Tesla, Esq.,
202, Metropolitan Tower,
New York City.

Dear Mr. Tesla,

I received your letter of December 29th and am quite willing to extend the old loan to the 1st of May next, but I am not prepared to increase the amount by making a further loan as you suggest.

Yours very truly,

202 Metropolitan Tower
January 5, 1914



Dear Mr. Morgan:

Your letter of January 2d, kind and considerate as it was, has given me a painful shock although I had no right to expect further assistance from you for I believe that no other man in the United States would have done what you did under the circumstances.

With a man of few words like yourself a short statement is better than pages of explanation. I quote from a letter received this morning from the Bergmann Works by their representative here:

"Mr. Tesla will doubtless be pleased to learn that the Minister of Marine, Excellenz von Tirpitz has been requested to report to the German Emperor relative to the Tesla Turbine, who is greatly interested in this invention. We have promised his Excellency that the machine will certainly be here on exhibition about the middle of January, so you know what this means."

The machine has been completed some time ago and I hardly need to tell you why it was not shipped. I want \$5,000 to carry out my agreement with the German firms and I cannot raise it even on contracts which, normally, would be considered fair security. If I cannot procure this amount immediately I fear that I shall lose a chance which does not come more than once in a lifetime.

My success with the German firms means that I shall be a wealthy man within a year and able to carry out at my own expense the undertaking which I began with your father to a triumphal conclusion. My failure there would be disastrous to me and may make forever impossible the consummation of plans which I have patiently followed up for more than ten years.

Yours most faithfully,

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

23 WALL STREET
NEW YORK

January 5th, 1914,



N. Tesla, Esq.,
202, Metropolitan Tower,
New York City.

Dear Sir,

Mr. J. P. Morgan has
received your letter of even date,
and directs me to inform you that
he will make you a further loan of
\$5,000. for the purpose you mention.

Perhaps it would be
best for you to come to this office
and arrange the details of the matter
as in past cases.

Yours very truly,

J. P. Morgan
Secretary.

23 WALL STREET
NEW YORK

January 5th, 1914,



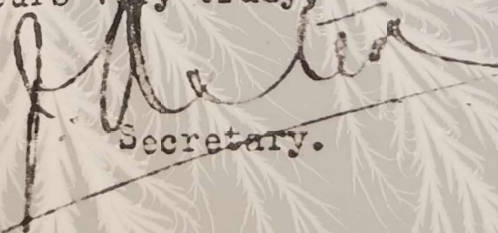
N. Tesla, Esq.,
202, Metropolitan Tower,
New York City.

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Perhaps it would be
best for you to come to this office
and arrange the details of the matter
as in past cases.

Yours very truly,


Secretary.

ary 5th, 1914,



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P. Morgan has
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Secretary.

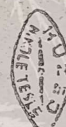
Anderson, Leland - Archivist and Manuscript Collector - Leland
MS A 81
(Dr. and Sr.) Nikola Tesla Correspondence - 1903-1934 Folder 18

\$5,000 January 6th 1914
PAID
BY NIKOLA TESLA
On February 20th 1914 after date I promise to pay to
the order of J.P. Morgan & Co
Five thousand Dollars
at office of J.P. Morgan & Co. 15 Broad St. N.Y. City
Value received mth interest @ 6%
No. Due
The Brown Green Co. 46 John St. N.Y.

5

186

\$5.000-



January 6 1914

On February 20 1914 after date of admittance to
the order of St. George's Co
of the order of St. George's Co
at office of St. George's Co 15 Broad St. New York
City
with interest @ 6%
Chick Test

No. — Date —

The Green Giant Co. 48 John St. N.Y.

Andersen, Leland - Admiration and Manuscript Collections - Library of Congress
MSS 481
(Dr. and Sr.) Nichols Test

Copy

January 6, 1914



My dear Mr. Morgan:

This happens to be my Christmas eve and I naturally feel the power of that mysterious influence transmitted through ages which makes us the more susceptible to acts of kindness.

I do not know what I would have done without your timely assistance in these distressing circumstances when everybody holds on to his dollars like a drowning man to a straw.

Believe me, more than on my own accord am I glad to know that the great Morgan has left so worthy and noble a successor.

I wish you from all my heart health and strength and continued success in your difficult and responsible position.

As ever yours,

Most faithfully,

(Signed) N. Tesla

202 Metropolitan Tower
March 12, 1914



Dear Mr. Morgan:

I have perfected a very valuable invention for which there is a ready and virtually unlimited market. The underlying principle is considered entirely novel and original and my practical record is firmly established. The patent attorneys, Kerr, Page, Cooper and Hayward, have examined carefully its merits from their point of view and I have also asked competent expert advice. The enclosed letters will speak for themselves.

To convey an idea of the commercial possibilities, permit me to mention just one special application of my improvement. Every automobile now carries a speed indicator or tachometer, which is a complicated and delicate apparatus comprising clock work, centrifugal regulator, cams and levers. A further drawback is that the indications are not proportionate to the speed which necessitates the employment of an empirical scale and careful calibration. The present market price is from \$50 to \$100 and several hundred thousands are sold annually.

My new indicator is ideally simple, consisting practically of two parts which are extremely cheap to manufacture so that the whole instrument can be had for a few dollars. The important thing, however, is that the indications are rigorously proportionate to the speed, dispensing with all adjustment and calibration and permitting the use of a uniform scale. Putting it conservatively, I can save from thirty to sixty dollars on each car while giving to the purchaser incomparably better service. If I confine myself only to this one specialty I can easily make a large sum of money yearly, but there are many other and even wider fields for the invention and my attorneys urge me to start the introduction without delay.

Now, Mr. Morgan, I cannot tell you how much I would appreciate the honor of an association in business with you and how happy I would feel to put myself in good standing with your father's estate and yourself. I would like to incorporate a company with small capital under my name and turn it over to you entirely in any manner

J. P. Morgan, Esq.,

-2-



you choose. As I know that you are too generous and would give me more than I ask for, I take the liberty to suggest one-third of the interest for myself.

Please do not consider this proposition as an inducement because it is profitable, but take it in the respectful spirit in which it is made, namely, as an appeal to you for help at a critical moment of my life when it is imperative for me to secure as quickly as possible financial returns.

In the turbine proposition I have received a painful setback. I installed the machine at the Edison Plant and made some very gratifying tests but soon discovered that the castings of the bearings were full of small holes which allowed the water to enter and made it hazardous to run. After numerous ineffectual attempts to remedy the defects I had to resign myself to renew these parts. The work is being carried on day and night and I expect to have everything in running order the latter part of next week, but I have spent considerably more money than I expected and the incertitude of meeting the bills and also of making certain payments in connection with my patents worry me greatly and at present I have only the hope that I might hear from you favorably.

Believe me,

Yours most faithfully,

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

23 WALL STREET
NEW YORK

March 16, 1914.



Nikola Tesla, Esq.,
1, Madison Avenue,
New York.

Dear Sir:

Mr. J. P. Morgan has received your letter of March 13th and directs me to inform you that it would be impossible for him to become interested in any further inventions, the demands upon him time for other matters being one of the many reasons against his doing so. I return the two letters which accompanied yours.

Yours very truly,

J. P. Morgan
Secretary.

23 WALL STREET
NEW YORK

March 16, 1914.



Nikola Tesla, Esq.,
1, Madison Avenue,
New York.

Dear Sir:

Mr. J. P. Morgan has received your letter of March 13th and directs me to inform you that it would be impossible for him to become interested in any further inventions, the demands upon him time for other matters being one of the many reasons against his doing so. I return the two letters which accompanied yours.

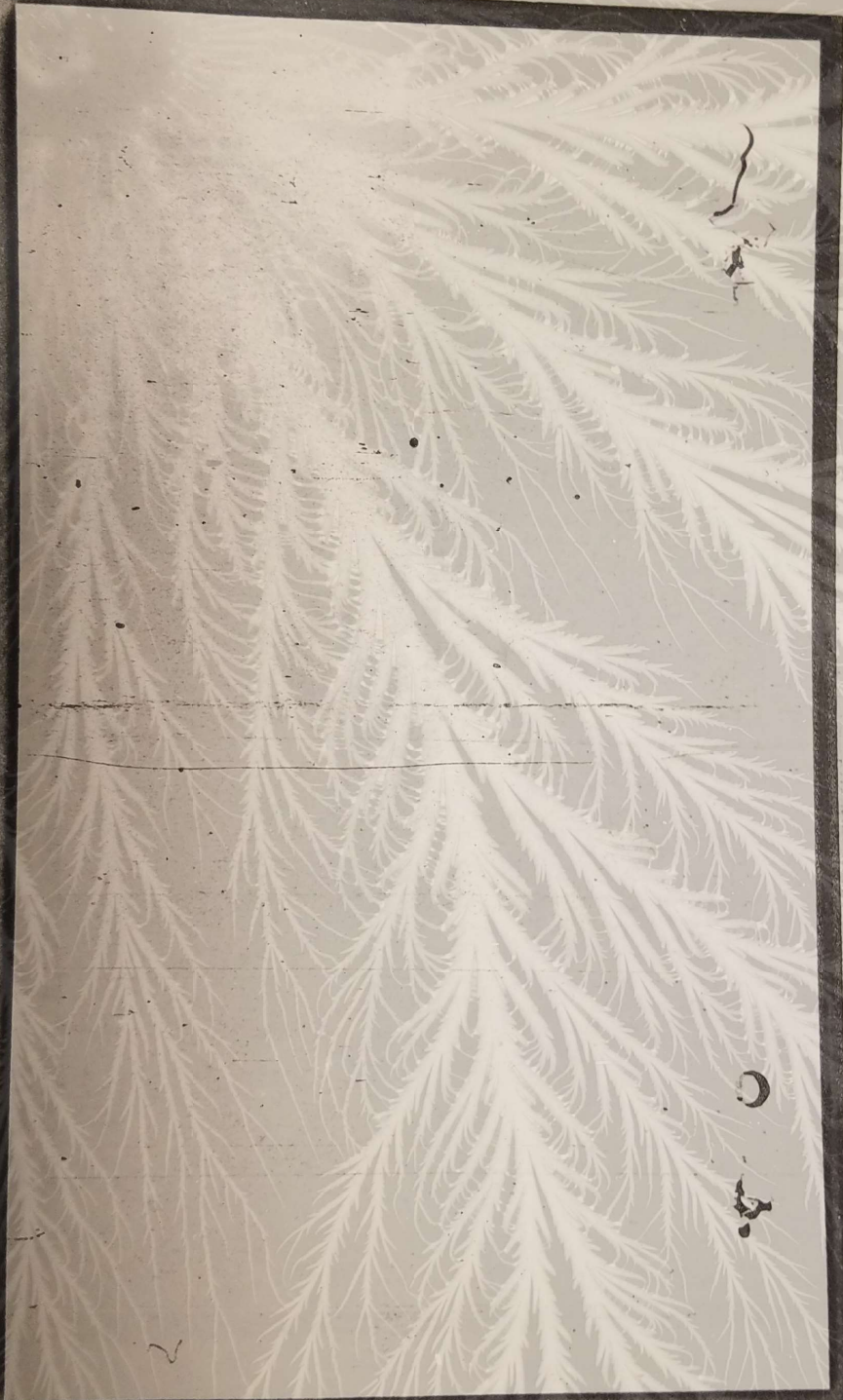
Yours very truly,


Secretary.

1914.

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Anderson, Leland - Archaic and Manuscript Collection (Dr. and Sr.) N. K. P.

202 Metropolitan Tower
March 17, 1914



J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

Dear Mr. Morgan:

I have received your Secretary's letter of March sixteenth and wish to thank you for the attention given to the matter, as well as to apologize for my intrusion upon your valuable time.

There was, of course, little hope that you would favorably consider my proposal but, as a matter of principle, I did not want to undertake anything before offering the invention to you. It is a very fine improvement, indeed, out of which a great deal of money can be made quickly and my only difficulty now is to secure a little capital for starting the business. I believe that if I had \$10,000 to begin with I could make \$150,000 in the first year. The turbine development will be of necessity slow and I am trying hard to establish a profitable business in the meantime, in order to free myself of obligations and meet my current expenses.

Believe me, as ever,

Yours faithfully,

202 Metropolitan Tower
March 19, 1914



J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

Dear Mr. Morgan:

The reports which you may have noticed in the papers this morning, in regard to a wireless patent suit, are misleading inasmuch as the decision involves only certain specific features. The Marconi patent chiefly concerned in the suit was applied for four years after a grant to me of a broad patent on the same apparatus and its allowance was due to a mistake of the Examiner. My patents are absolutely controlling in every important feature of the art.

The same case was recently argued in France between the Marconi and French Companies and, on the strength of my statement which I enclose and my American patent anticipating that of Marconi, a decision was rendered in favor of the French Companies.

Faithfully yours,

Enclosure

202 Metropolitan Tower
March 20, 1914



J. P. Morgan, Esq.,
15 Broad Street,
New York N. Y.

Dear Mr. Morgan:

I would be very grateful if you would accord
me a few minutes at your convenience. I could come to your
office any hour at short notice by telephone.

Thanking you in advance, I remain,

Yours faithfully,

23 WALL STREET
NEW YORK

March 23rd, 1914.



N. Tesla, Esq.,
202, Metropolitan Tower,
New York City.

Dear Sir,

Mr. Morgan has
received your letter of March 20th,
but says that it is impossible for
him to see you at present, his time
being so fully occupied with many
other matters.

Yours very truly,

J. P. Morgan
Secretary.

100-201
Nikola Tesla - Leland - Attributed and Manuscript Collection
(1894-1914)

23 WALL STREET
NEW YORK

March 23rd, 1914.



N. Tesla, Esq.,
202, Metropolitan Tower,
New York City.

Dear Sir,

Mr. Morgan has
received your letter of March 20th,
but says that it is impossible for
him to see you at present, his time
being so fully occupied with many
other matters.

Yours very truly,


Secretary.

3rd, 1914.



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March 20th,

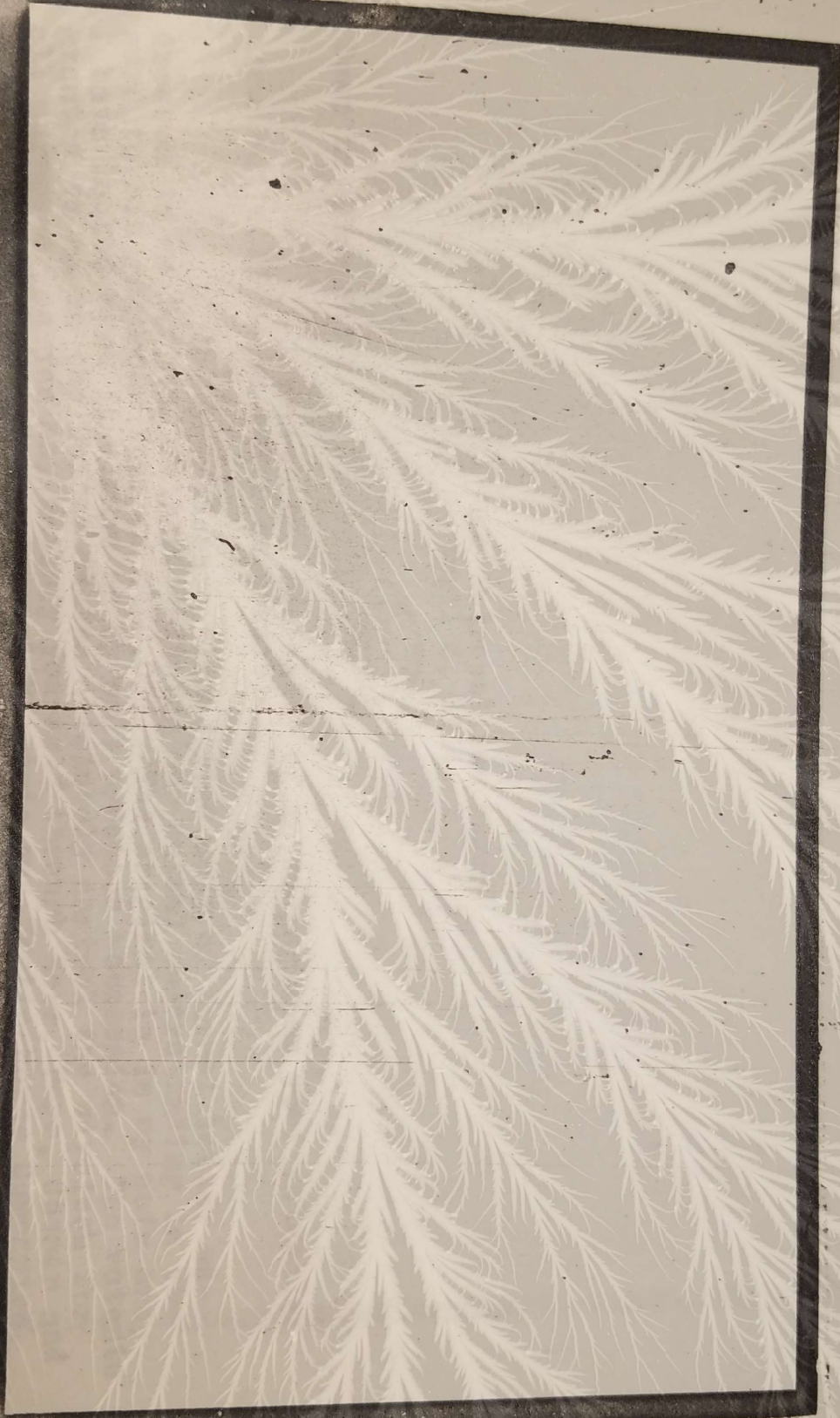
ssible for

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truly,

John
Secretary.



Handwritten text at the bottom of the page, including "Leland - Atwood" and "Aderson, Leland".

202 Metropolitan Tower
April 8, 1914



Dear Mr. Morgan:

I regret the necessity of intruding upon your valuable time but will be as brief as possible.

Under enclosure please find copy of formal letter addressed to me by your father, defining our mutual understanding in regard to his generous loan of \$150,000. The original is in my safe and I have looked upon it always as my most precious possession. The patents granted to me in the United States absolutely control the wireless for all purposes, as you may satisfy yourself through Kerr, Page, Cooper and Hayward, attorneys for the General Electric and Westinghouse Companies. There will be immense sums of money invested in the new art and if I can only protect our joint property, a liberal return on the investment made cannot escape me.

I am also enclosing several agreements already consummated to show the commercial possibilities of some of my inventions. I have numerous pending proposals in this and other countries which may at any time materialize but for the time being I am in a serious plight. If you do not come to my rescue I shall surely suffer great loss and be set back in the development of my business, possibly for years. As I stated in a previous letter, if I could only get a loan of \$10,000 on these agreements as security for the purpose of putting on the market a magnificent money-making invention, I would be on an earning basis within two months and fully able to meet all the expenses which the development of my business demands until the larger undertakings come to fruition. You are the only man I know big hearted enough to make such an advance.

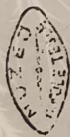
Hoping that I have not in any way forfeited the kind interest you have already shown and the confidence with which you have honored me, I remain,

Yours most faithfully,

J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

23 WALL STREET
NEW YORK

April 6, 1914.



Nikola Tesla, Esq.,
202 Metropolitan Tower,
New York.

Dear Sir:

Mr. Morgan has received your letter of April 3rd and directs me to tell you that he is not prepared to make any further advances of money to you. I return herewith the copies of the agreements which you sent for Mr. Morgan's information.

Yours very truly,

J. P. Morgan
Secretary.

23 WALL STREET
NEW YORK

April 6, 1914.

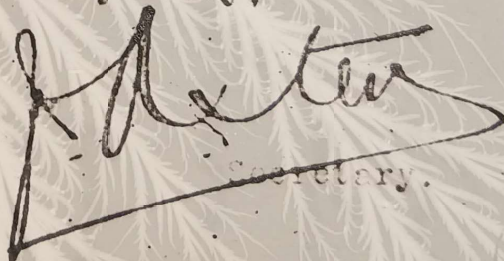


Nikola Tesla, Esq.,
202 Metropolitan Tower,
New York.

Dear Sir:

Mr. Morgan has received your letter of April 3rd and directs me to tell you that he is not prepared to make any further advances of money to you. I return herewith the copies of the agreements which you sent for Mr. Morgan's information.

Yours very truly,


Secretary.

April 6, 1914.



Tower,

received your
and directs me
is not prepared
advances of money
herewith the copies
which you sent for
ation.

truly,

[Signature]
Secretary.



Anderson, Leland - Archaival and Manuscript Collections - Library of Congress
(Dr. and Sr.) Nikolic Testa
MCC 491

The Waldorf-Astoria
New York.

April 8, 1914.

My dear Mr. Hoge,



Words can not express how
much I ^{have} deplored the cruel
necessity which compelled me
to appeal to you again. But
it was only after many futile
attempts in other directions
that I ~~will~~ ^{knowing} you
would see that the cause
was ~~the~~ ^{right}. I said that I
was in a ~~terrible~~ ^{desperate} plight, but
the plain fact is that I am
in a ~~critical~~ ^{critical} condition.

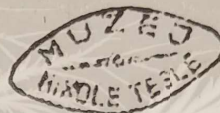
Ch. ever den

Wm. H. H. H. H.

23 WALL STREET
NEW YORK

May 1st, 1914.

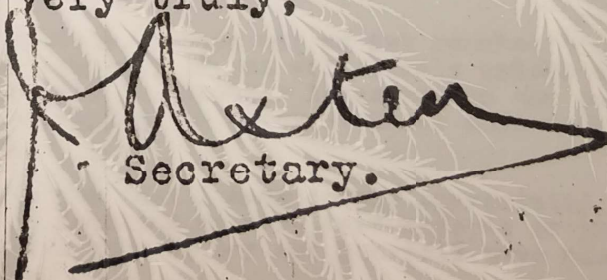
N. Tesla, Esq.,
Woolworth Building,
New York City.



Dear Sir,

Mr. J. P. Morgan has received
your letter of yesterday, and directs
me to point out to you that the loan
was extended for three months from
February 20th, and therefore does not
fall due until May 20th.

Yours very truly,


Secretary.

Woolworth Building

April 30, 1914



J. P. Morgan, Esq.,
15 Broad Street,
New York, N. Y.

Dear Mr. Morgan:

Although I am temporarily at a disadvantage, I hope that I have lost none of your sympathy. Many men of business who have achieved greatness have found themselves in similar situations. I am working hard and persistently and am confident that everything will come out well in the end and that I shall be rewarded for my labors.

Unfortunately, I have not as yet reached tangible results and will be grateful if you will kindly extend my obligation maturing tomorrow for another three months and also give me the privilege of paying the interest later when some of my returns will be due.

Assuring you that I have deeply appreciated your generosity and that I am devoting my very best efforts to prove myself worthy of the faith your father and yourself have placed in me, I remain, as ever

Yours with respectful regard,

J. P. MORGAN & CO.
Wall St. corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, GRENFELL & CO.
London.
MORGAN, HARJEH & CO.
Paris.

New York: June 25th, 1914.



Nikola Tesla, Esq.,

202 Metropolitan Tower,

23rd St. & Madison Ave., New York, N.Y.

Dear Sir:-

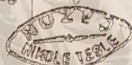
Enclosed find memo. of interest to June 30th, 1914, on
your loan, amounting to \$541.67, for which please send us your
check.

Yours very truly,

J. P. Morgan

Enclosure
D

1136 Woolworth Building
July 13, 1914



Telephone "Barclay 6472"

Dear Mr. Morgan:

Pardon me for trespassing on your valuable time, but the following statement is necessary and due to you as well as to myself.

As you will kindly remember, I undertook thirteen years ago to transmit wireless telephonic messages around the world. While the experts then considered this an impossible feat it was simple of accomplishment and the direct consequence of discoveries I made with my experimental plant in Colorado. But the man who promised assistance deserted me and deprived me of triumphs and successes which were within easy reach. You are a strong man and may, perhaps, not realize what I have gone through. Certain it is that I would have succumbed to the pain had I not found force in contempt. However, all is not lost yet and even if I should never be able to carry out what I have undertaken, I still can acquit myself of your father's generous loan provided that certain steps, which involve the expenditure of a comparatively small amount of money, are promptly taken. I am asking for nothing. Mr. Morgan, I merely state a fact. The development of my wireless system has cost me half a million dollars but this alone would not have prompted me to write you at this moment.

As regards the turbine proposition which I brought to your personal attention, it can be summed up in a few words. Four years ago I owned 70% and another party 30% on which I secured an option for \$200,000. Of this I managed to pay \$60,000. I then sold an interest to secure capital for further development in the sum of about \$150,000 which can be converted into a share of 18% in a new company I have intended to organize, after paying the remainder of the option. When I approached you last year my idea was to develop the business to a point at which it would deserve your attention and then submit the proposition to you on your own terms. I is impossible for me to explain everything at length but I have started commercial work along several lines and while I can advance only slowly, being as I am hampered for want of money, I am perfectly confident that I shall win out ultimately and adjust my business with you to your entire satisfaction.

Believe me as ever,

Most faithfully yours,

J. P. Morgan, Esq.,
15 Broad Street,
City.

COPY

New York, N. Y., November 23, 1914



Dear Mr. Morgan:

I have been ill since some time but that has not bothered me nearly as much as worry about my business.

In the first place, I have not yet reached a conclusion which would enable me to submit to you a definite and satisfactory proposition in regard to my turbine inventions. Agreements were drawn, by the terms of which four hundred thousand dollars (\$400,000.) in cash and forty thousand dollars (\$40,000.) minimum yearly royalties were to be paid for my British and French rights, but they were put off on account of conditions which suddenly developed and all other undertakings which I started in Europe, with the best prospects, have come to a halt for the same reasons. All this puts me to the necessity of asking you to kindly extend once more my note. I am unable to even pay the interest as I have had to use every dollar for pressing payments in connection with patent and other matters.

As to the wireless situation, it has now reached the stage when I must begin my action against the infringers as otherwise my rights will be imperilled. Some time ago I called and explained the main points to your Mr. Sullivan. My victory is perfectly certain if the necessary steps are made. All independent electricians, including the leading experts of the Government, admit now that my patents are controlling and a precedence in my favor has already been established by a decision of the highest Court in France.

You know, Mr. Morgan, that wireless transmission is considered the greatest of all inventions and that it has been evolved by me, not only in its fundamental principles but also in the most important details. Can you put yourself for a moment in my place? Surely, you are too big a man to permit such an outrage and historical crime to be perpetrated, as is now being done by cunning promoters. If I can meet the indispensable expenses for a little while, I shall certainly compel a settlement which will make your father's and my own investment in this invention highly profitable. I expect, also, to receive satisfaction from the United States Government (which has so far installed about \$5,000,000. worth of my apparatus) and an acknowledgment through the Congress. My case is being prepared but I cannot stir further without money and, if I am not helped, all my prospects will be jeopardized.

I have solved, in a simple and most practical manner, the problem of harnessing the waste heat in the manufacture of steel and iron and can positively prove that \$50,000,000. can be turned to

-2-



profit annually from this source in the United States but lack of funds prevents me from going ahead.

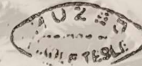
Hoping to hear from you favorably, I remain, with respectful regard, as ever

Yours faithfully,

J. P. Morgan, Esq.,
23 Wall Street,
City

23 Wall Street.
New York.

November 25, 1914.



Mr. Nikola Tesla,
Woolworth Building,
233, Broadway,
New York.

Dear Sir:

I am in receipt of your letter of November 23rd,
contents of which I have noted.

I shall, of course, expect that you will make every
effort to pay the interest on your loan as soon as pos-
sible.

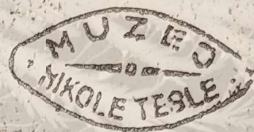
I am willing that the period of the present loan
should be extended, but am not prepared to comply with
your suggestion that a further loan be made to you.

Yours very truly,

H. W. H. H.

The Waldorf-Astoria
New York.

Nov. 26. 1914.



Dear Mr. Morgan —

The letter I have just received
from you hurts. It is not
from I understand. I understand
at the problem of the interest you
fully place with me. I have
spend and ~~some~~ ^{more} appropriately my
thousand of dollars to them and, often
of great ~~importance~~ ^{importance} and I thought
that you would find it just and
fair to help a little in this
~~last of my~~ ^{last of my} ~~career~~ ^{career} when I am unable to
leave the business myself. We

I have the papers as are showing
some of the most profitable
~~and~~ from which the
money slips are taken, Then
I feel dead of every other
share ~~but~~ one for now
than that is to the satisfaction
of buyers by submitting both you
rather than to the conclusion.

I have not yet had the
 pleasure of seeing you, but I
 am sure you are well.
 I am very much interested
 in the work you are doing
 and hope to see you soon.
 I am, dear friend,
 ever your affectionate friend,
 Wm. Lloyd Garrison

There is great progress, R. Taylor,
that will yield enormous returns.

I take care of her about
all a season within the year
of a year. There are
several times about the
house longer than the myself.
I can say to me.

Yours very faithfully



N. Perkin.

J. P. Morgan & Co.

P.O. Box 3036.

New York, December 7th - 1914.



Nikola Tesla, Esq.,

1 Madison Avenue,

New York, N. Y.

Dear Sir:

We beg to acknowledge receipt of your letter of the 4th instant, with your kind expression of sympathy at the death of our partner, Mr. Temple Bowdoin, which we greatly appreciate.

Yours very truly,

A large, stylized handwritten signature in dark ink, appearing to read "J. P. Morgan".

New York, Dec. 23, 1914.



Dear Mr. Morgan,

At the suggestion of your secretary with whom I had a brief conference I beg to submit the following statement for your kind consideration.

When I interested your father in my project, the claims he made he treated me and my unbounded admiration for him carried me off so completely that I put ordinary considerations aside and undertook to accomplish something great and worthy of the support of such a man. It was the construction of a transmitter capable of transmitting the human voice and likewise to any distance without wire. I had thoroughly demonstrated my proposition, secured perfect patent protection and, moreover, satisfied myself that the underwriting would yield a net profit of not less than twenty five thousand dollars a day.

On another occasion I have told you how I was diverted by the very man who had made millions in the industrial revolution. I was diverted by some of my earlier inventions. For a number of years, alone and unaided, I had to defray the costs of all kinds of development, patent workings, fees and legal services, make expensive drawings, and carry on interference suits until my property was completely and ungraciously exhausted in every direction. Furthermore, I was so preoccupied to him my conduct of business above reproach that I devoted myself to the interest of my associates without salary and paid all office expenditures. They have repaid a good deal of money, but I am convinced that I could not have

[illegible]

As you well know, your father, whose participation in my enterprise
is like yours, entirely confidential and only known to a few friends, and especially
agreed to take for his share one third of stock and also secured of
a company I was to organize. My legal advisers tell us that the im-
mediate incorporation of an operating company is a precaution necessary and
that proceedings against ~~the~~ infringers must be begun at once as further
delay will result in great loss of money and will imperil my rights. X

That we form a company and some paid in capital to which all rights
will be transferred and will whilst I am to make an agreement to assign
any further invention and improvements within field, and that we cover
ourselves and deliver them to you to secure you and your father's estate. If
you would ^{and if they were} I feel absolutely sure that under the very best advice
I should be able to return to you and your father's estate not less than
£100,000 within a reasonable time. I know that I can do so.

I have no doubt of my ability to do so. I have no doubt of my ability to do so.
I have no doubt of my ability to do so. I have no doubt of my ability to do so.

J. P. MORGAN & CO.
Wall St. corner Broad.
New York.
DREXEL & CO.
Philadelphia.
MORGAN, GRENFELL & CO.
London.
MORGAN, KAHN & CO.
Paris.

New York: December 23rd, 1914.



Nikola Tesla, Esq.,

202 Metropolitan Tower,

23rd St. & Madison Ave., New York, N.Y.

Dear Sir:-

Enclosed find memo. of interest to December 31st, 1914, on your note, amounting to \$1,308.33. Kindly hand us your check on or before that date, when we close our books for the year.

Yours very truly,

Enclosure

The Waldorf-Astoria
New York.

Dec. 27. 1914.

My dear Mr. Ingers,



If you will give me a short
hearing I shall submit to you a
proposition which will place my business
with your father and yourself on a
sound basis and enable me to
achieve the ^{desired} ~~success~~ ^{success} I have been so
long striving for.

I have developed property worth
many millions of dollars, but it is shipped
out of my hands and will be lost if you
do not intervene as my dear mechanical
inventor's successful representative.
Yours very faithfully

The Waldorf-Astoria
New York.

Jan 7. 1915.

Dear Mr. May -



I feel that

To day is my Christmas and if
I do not convince you now I never

will. When I brought out my ^{system} ~~system~~
~~of power transmission~~ ~~transmission~~ ~~apparatus~~

appropriated it and for a few years I
was nowhere. The old shipping master
inclusion ~~game~~ ~~Judge~~ ~~Dawson~~ ~~frank~~

~~document~~ tells how it all ended. Every
infringer without exception had to pay up.

My position is the weaker in
much stronger because it is not like
my power system a single discovery is

only
all
mullays
just
\$10,000
we have

on
the
the
copy
of

you
many



all
in

invention but an art which is based for
on the application of a number of So
frankly admitted ~~principles~~ ^{principles} and ~~methods~~ ^{methods}
~~and~~ and protected by ^{my} ~~the~~ ^{Placard} The
that ~~arise~~ ^{arise} from electrical devices store
just around referring to my talent with
patent and ~~being~~ ^{being} ~~reminded~~ ^{reminded} that I fear
I have no pride against like other large
~~electrical~~ ^{electrical} celebrities but on the heads
contrary, ~~there~~ ^{there} an army of cunning and for
people arrayed against me. money

I have secured blue prints of apparatus
designed by my ^{Mr. Douchette} ~~business~~ ^{under my} ~~name~~ ^{name} ~~which~~ ^{which} ~~has~~ ^{has} ~~been~~ ^{been} ~~instituted~~ ^{instituted} on
the highest ~~work~~ ^{work} ~~and~~ ^{and} ~~according~~ ^{according} to
the report of Secretary Daniels
dated Aug. 20. 1914 is "superior"
X This is
discovered
unlike the

is good for any other radio apparatus"
of So much so that ~~it becomes~~

~~the fact~~ a considerably higher price
is being paid for it.

The show is styled as follows
show that what I am developing

will be a better radio as a property
of greater value, which will bring

large returns to us and which will
lead to be put through methodically

and protected for a time, I believe.
Money will be sufficient for this

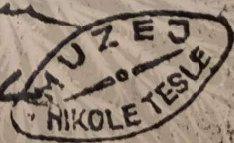
and I assure you of my word that
you will receive the highest value.

What I propose is to organize the
"Tele World Wireless Company" which will

be bonded for the amount you choose
and without me. Should I stock out

X This system is based on the use of carbon waves
discovered by me which are effective at any distance
unlike those now in use, however great.

be turned over to you, ^{father's} ~~relative~~ according
to my original understanding with
~~the father~~ ^{my father}. To meet the initial outlays
before any working expenses and five per cent
protection of the property for some \$10,000
will be sufficient for the Company, and has
a secure revenue of \$5000 from their own
license and will in all probability
be ~~able to~~ ^{possess} this undecaying income
by far the ~~best~~ ^{best} ~~investment~~ ^{investment} ~~anywhere~~ ^{anywhere}. The
Company will be to control all copyright
for together and also to get a ~~good~~
and ~~good~~ ^{good} compensation from the government.
I feel ~~absolutely~~ ^{absolutely} sure that if you
will assist the underwriter temporarily
to the extent it will be in
many months before you will
~~experience~~ ^{experience} ~~the results~~ ^{the results}.
Now as regards your ~~investment~~





The Waldorf-Astoria
New York.

in my ^{to} ~~the~~ ^{own} ~~mind~~ ^{mind} ~~and~~ ^{and} ~~the~~ ^{the}
is as large as a ~~gorilla~~ ^{gorilla} and ~~bird~~ ^{bird}.
I have seen you the ~~opinion~~ ^{opinion} ~~you~~
~~have~~ ^{of} ~~seeing~~ ^{seeing} ~~expeditions~~ ^{expeditions} ~~to~~ ^{to} ~~the~~
effect that they ~~are~~ ^{are} ~~and~~ ^{and} ~~have~~ ^{have} ~~no~~ ^{no} ~~idea~~ ^{idea}
of ~~the~~ ^{the} ~~possibility~~ ^{possibility} ~~of~~ ^{of} ~~revaluing~~ ^{revaluing}
the ~~value~~ ^{value} ~~of~~ ^{of} ~~the~~ ^{the} ~~business~~ ^{business} ~~of~~ ^{of}
the ~~if~~ ^{if} ~~will~~ ^{will} ~~take~~ ^{take} ~~some~~ ^{some} ~~time~~ ^{time} ~~before~~ ^{before}
as ~~a~~ ^a ~~business~~ ^{business} ~~operation~~ ^{operation} ~~the~~ ^{the} ~~operation~~ ^{operation}
of ~~the~~ ^{the} ~~operation~~ ^{operation} ~~has~~ ^{has} ~~the~~ ^{the} ~~success~~ ^{success}
will ~~be~~ ^{be} ~~all~~ ^{all} ~~the~~ ^{the} ~~greater~~ ^{greater}. I am
making head to ~~beat~~ ^{beat} ~~the~~ ^{the} ~~competition~~ ^{competition} ~~and~~ ^{and} ~~the~~ ^{the} ~~success~~ ^{success}
~~and~~ ^{and} ~~the~~ ^{the} ~~operation~~ ^{operation} ~~has~~ ^{has} ~~the~~ ^{the} ~~success~~ ^{success}
but in the ~~mean~~ ^{mean} ~~time~~ ^{time} ~~you~~ ^{you} ~~know~~ ^{know},
course, that all my personal interest
in ~~the~~ ^{the} ~~operation~~ ^{operation} ~~is~~ ^{is} ~~pledged~~ ^{pledged} ~~to~~ ^{to}

Wrote to you

and will

You for your services for
~~the sum of \$2000.00~~
~~the sum of \$2000.00~~ dollars.

I earnestly hope that you will
find the sum I am so much
in debt to you with regard to
the bottom which I have invested in
by certain means.

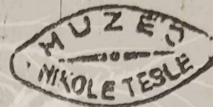
Yours most faithfully

J. M. Smith

W. H. Smith

23 WALL STREET
NEW YORK

January 8, 1915.



Dear Mr. Tesla:

I am very sorry, but it is impossible for me to put any further money into inventions, and I am afraid, therefore, that you will have to work out the one you refer to without any further assistance from me.

Yours very truly,

A handwritten signature in cursive script, appearing to read "J. P. Morgan".

Mr. Nikola Tesla,
Waldorf-Astoria Hotel,
New York.

The Walcott-Astoria
New York.

Jan. 14. 1915.

Dear L. Morgan,



Since receipt of your letter of the 8th
and I have felt as if a calamity had
befallen me. But at the same time I
am glad to receive the assurance that
by persistence, though possibly displeasing,
has not created an impression of your mind.

The clipping from the Current Review
has been improved you that I asked your
support for something new. Such is not
the case. I wanted only to be in the
position to get a few pieces for our
poor people. What was the objection
but exactly as I intended to be, as I intended

united States
citizens

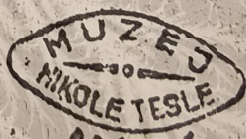
for non payment of taxes I shall
continue to make money as I have done
before but that good will at the time
the rights are gone. If we turn
which means that others are exploiting
I am prepared to accept their will. Same
that if I could incorporate a law
strong as I proposed to you this would
stop it entirely. I believe in fact
that not one of the violators would
even dare to fight. They would come
to turn their money and
I have an organization behind me
which the Government can't touch

Just to give
advice
if not
lost. For
of 400,000
to a
appears
as the
in violation of law and
Same
I
to be
from
Ref
completing
degree
and
some ad

I want to give an example, I have to
admit a small sum by cable to - now,
if not the valuable patents will be
lost. For then I have already had a proposal
of 400,000.00 in cash and more than this is together.

to a stop for want of funds
appealed to your father & the naval
army as you. But finally he found
exploring and collecting in the west of Europe. The
night. Same happened to the General Election Co.

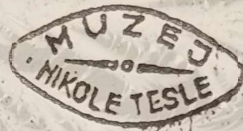
I am not begging for anything
to begin but simply with
and find this can restore you to the
come true light.



Regrettably very much the same circumstances
compelling me to share the situation to a
degree painful to a man of the refinement
and thinking you were deserving for your
work and scientific achievements I remain as ever
faithfully yours

The Waldorf Astoria New York.

Feb. 19. 1911



Dear Dr. Hryz...

The German experts, Prof. Brown
(recipient of the Nobel prize) and Prof. Lannach
(leading authority on electricity) have been
in the country since the summer of 1909
and have been to the conclusion
that my products are contributing to the further
development of the electric power industry.
I have offered to pay a percentage on the gross earnings of
the company in the amount of 10% and have
signed an agreement accordingly. I am expecting
to enter into their plant at Szeged
some feature of my own which will make
it possible to communicate to Paulin Gurel
the telegram ^{and then} ~~in that~~ case the royalties from the
company will be ^{very} considerable.

My copy will be private, at least unless
it shall be as good as sold certificates. it was on

private & not sold
not sold

This strengthens my position greatly
but, at the same time, to be perfectly
sure it would be necessary to do as
my attorney's advice. I have had a
conference with ~~the~~ ^{them} yesterday and
this morning. I understand that I ^{have just} received
this morning is sufficiently explained in
itself.

We have already drawn papers
and if I could organize them into
Company immediately, every thing will be
completely ~~finished~~ ^{done} and I shall be in the
position of commanding terms with the
infringers. The business prospects
have appeared in ~~the~~ ^{the} ~~most~~ ^{most} ~~favorable~~ ^{favorable} ~~light~~ ^{light}
prospects for some considerable time

it will
it will. it was on a basis of stock which is offered to the public and
accepted for that reason & I am
sure that all the arguments, would be
sufficiently well that they demonstrate
being then and possible, my terms
will be extremely fair.

As you see Dr. Morgan the new Com.
pany will have ~~perfect~~ good credit & the
regulation already secured and will be
fully capable of discharging the obligations
of \$4,000,000 and is in a position to
and then can be no doubt
that within the next
few months agreement will be concluded
which will be to the satisfaction of all
your fellow holders in a manner very
satisfactory to you & to myself. ~~There is~~
It would be useless for me to
engage in ~~any~~ arguments, however
and I do as the attorney advises.

and convincing
sounded, but I saw some from the
admirable circular issued by J. P. Morgan
& Co. Feb. 20 1913 ~~per 15~~. "We have
never heard of any responsibility and
deserving individuals, firm or corporation
being unable to secure ample credit".
There is a responsible & deserving individual (recep.
who has appeared three times in a matter (laide
down in which which is already of great
consequence to the world and who is sure
to win a large fortune if he can overcome
the present difficulty. And he is trying
his own.

Yours most faithfully

N. Tere



The Waldorf-Astoria
New York.

March 17, 1915

Dear Mr. Meyer



I have just learnt that you
are ^{to} ~~going~~ ^{leaving} for Europe and wish to

wish you a happy voyage.

It looks as though there
will be very favorable developments
in my business in the near future
and I hope to have tangible
results when you return.

Believe me as ever your very truly

J. L. Meyer Esq.

S.S. Philadelphia

W. R. R.

COPY

New York, June 11, 1915



Dear Mr. Morgan:

I would have written before had I not been afraid to 'praise the day before the evening', but there seems to be no doubt now that you are out of danger and I hasten to congratulate you on your miraculous escape which was due to Mrs. Morgan's presence of mind and your energetic action.

I was, myself, exposed to attacks of cranks a number of times. The last case was that of a certain Mrs. Tierstein who wanted to shoot me for throwing electricity at her. I disdained to complain but finally she was caught and Judge Foster sent her to the asylum. I pity the poor woman. These deluded wretches are not responsible, the true cause of it all is the incessant agitation in the papers. I hope that you will do something towards stopping it.

I have taken the liberty of forwarding under separate cover a little article I wrote, thinking that it might interest you in your present enforced inactivity. I touch in it about as lightly as was possible on some of my work. My 'ship' has not yet come in but it is on the way. Submarines worse than those of the Germans are lurking all around but, perhaps, they will miss it. Please note the statement in regard to the Steel Industry. I have carefully studied the proposition and am convinced that the figures are conservative. The problem is solved but how to make people listen is still a great difficulty.

Believe me, with respectful regard and best wishes,

Yours faithfully,

J. P. Morgan, Esq.,
69 West 88th St.,
New York City

J. P. MORGAN & CO.

NEW YORK.

June 28th 1915

NEW YORK.
Nikola Tesla Esq



Dear Sir :

Please send us check for \$ 2041.67 in payment
of interest to Jane Co. "1915 on your Time Loan, as per
statement below, and oblige.

Yours truly,

J. P. MORGAN & CO.

FROM	AMOUNT OF LOAN	DAYS	INTEREST
Feb. 20 1914	\$ 25.000	6	\$ 2.041.67

Interest payable at the end of March, June, September and December.

STATION, GLENCOVE.
TELEPHONE, 104 GLENCOVE.

MATINCOCK POINT,
GLENCOVE, L.I.

July 13th, 1915.



Dear Mr. Tesla:

I thank you very much for your kind letter,
and certainly hope that your "ship" may come heavily
loaded with the most substantial of profits. I shall
read your article with great interest.

Yours very truly,

N. Tesla, Esq.,
Woolworth Building,
New York City.

(COPY)

Back track in file

November 26, 1915.



Dear Mr. Morgan:

I am writing on the first sheet of our stationery to congratulate you on your speedy recovery which is an evidence of your reserve powers. May you be spared all further suffering!

On this occasion I take liberty to ask you as a great favor for a photograph of your father. Lord Kelvin, who had a deep affection for me, gave me one of his and I want these two portraits to inspire me, one in business, the other in science.

I am doing my work at present with surprising ease and am determined to take advantage of my second wind in overcoming the obstacles which have confronted me since years.

With expressions of high regard, believe me as ever,

Yours most faithfully,

J. P. Morgan, Esq.,
71 West 88th Street,
City

23 WALL STREET
NEW YORK

November 29, 1915.



Dear Mr. Tesla:

By direction of Mr. J. P.
Morgan, I am sending you herewith a
photograph of the late Mr. Pierpont
Morgan, as requested in your letter
of the 26th instant.

Yours very truly,

J. P. Morgan
Secretary

Nikola Tesla, Esq.,
8, West 40th Street,
New York.

23 WALL STREET
NEW YORK

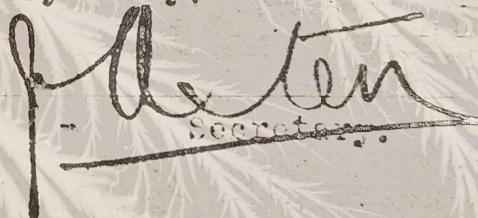
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Yours very truly,


Secretary.

Nikola Tesla, Esq.,
8, West 40th Street,
New York.

ember 29, 1915.



on of Mr. J. P.

g you herewith a

ate Mr. Pierpont

l in your letter

truly,

[Handwritten signature]
Secretary.

street,

MS 481

ANDERSON, Leland - Address and Manuscript Collections - Leland
(Dr. Anderson) NIKOLE

COPY.

New York, November 29, 1915.



My dear Mr. Morgan:

I feel deeply grateful for the splendid photograph of your father. It will remind me with pride of my relations with him and the thought of his greatness, the magnanimity and firmness of his character will always be for me a source of inspiration and courage.

Under inclosure please find two editorials* just received which are interesting inasmuch as these papers were against me.

With assurances of high regard and sincere wishes for your health and welfare, believe me

Yours most faithfully,

J. P. Morgan, Esq.,
23 Wall Street,
New York City, N.Y.

* *Electrical World* Nov. 13, 1915
Electrical Experimenter Dec. 1915

COPY

New York, N.Y., December 4, 1915



Gentlemen:

Please accept the expression of my sincere regret on the great loss you have sustained in the death of your Mr. Bowdoin.

I hope for the continued wellbeing and success of all the members of your Firm.

Very truly yours,

Messrs J. P. Morgan & Co.,
23 Wall Street,
City

, December 30, 1915



Messrs J. P. Morgan & Co.,
25 Wall Street,
City

Gentlemen:

I am mindful of the fact that accumulated interest on my note for \$25,000. is now due and that you will probably expect my check for the amount at the close of the year. For the time being I am still unable to meet this obligation, but I am making good headway in the development of my business and feel certain that the matter will be adjusted to your entire satisfaction in the very near future.

Wishing you a most happy and prosperous New Year, I beg to remain,

Very truly yours,

COPY

December 30, 1915



Dear Mr. Morgan:

Please accept my best wishes for a happy and successful New Year.

Your task is both the most important and hazardous of the time. I hope sincerely that in keeping your eyes to the stars you may not stumble over pebbles.

With expressions of high regard,

Yours most faithfully,

J. P. Morgan, Esq.,
23 Wall Street,
City.

January 10, 1916.

J. P. Morgan, Esq.,
23 Wall Street,
New York City, New York.



Dear Mr. Morgan:

The war has given special interest to the manufacture of nitric acid from the air by electrical processes. Heretofore, but one hundred thousand tons were consumed annually in all the world's industries. Many times that amount is now required for explosives only. The acid is already very scarce, the market price has trebled and is rising rapidly.

Everybody naturally thinks of water-power, but the fact is that even under the present conditions first class hydro-electric power is too dear. When a plant at Niagara City started years ago with power at \$15.00, I advised my friends that the undertaking would surely fail and it did. But there is plenty of electric power in the United States which can be very profitably employed in the production of nitrates. I have pointed out the possibilities of such manufacture in connection with the steel industry in the article, inclosed, a typewritten copy of which was referred to your Long Island home at an earlier date. Years of careful investigation and a number of intentions which I made in their course have preceded these statements. There is a marvelous opportunity. The Steel Corporation could secure immense revenues by applying my improvements. They are making millions out of it; inventions already. Is there no way in which I might be a little assisted in making a practical demonstration?

Yours most faithfully,

Inclosure.

(Folder 20 of 2)

January 16, 1916.

J. P. Morgan, Esq.,
23 Wall Street,
New York City, New York.



Dear Mr. Morgan,

A short while ago I read a statement from you in regard to some aspects of the war. This prompts me to send you the inclosed as of possible interest to you in connection with the subject.

Yours faithfully,

Inclosure.

Personal

New York, June 13, 1917



Dear Mr. Morgan:

Had it not been for fear of trespassing on your most valuable time I would have written long ago to tell you how much I have rejoiced in your wonderful success. The gigantic performance of your father and the fame of your firm have been helpful but you could not have achieved what you did had you not combined genius and courage to a rare degree. I hope from all my heart for your health and preservation in the face of the perils to which you are exposed.

On this occasion I would beg you to convey to all of your family my respectful and sincere congratulations and good wishes upon the coming marriage of your daughter. May you be as happy at home as you are prosperous in affairs!

I have made gratifying progress in the development of my own little undertakings and in about four months the assured income will be sufficient to take care of my obligation to you. My big ship is still to come in, but I have now a marvellous opportunity having perfected an invention which will astound the whole world. From the engineering point of view it will be a greater accomplishment than the wireless and the results of which I am absolutely certain, will be of incalculable value in many ways. I also believe that this advance will afford an effective means for meeting the menace of the submarine.

I am hopeful that I shall soon be enabled to put my plans in tangible form, when I could readily secure any capital desired for the exploitation of my wireless system which is a century ahead of the art of the present day. You may see from the enclosed excerpts that there is no longer a doubt among engineers as to who is the originator of the principles.

As ever,

Yours faithfully,

(Signed) N. Tesla

Personal

June 16th, 1917.

J.P. Morgan & Company.
23 Wall Street,
New York City, N.Y.



Gentlemen:

It is proper to congratulate you on the success of the "Liberty Loan." Your subscription was great and inspiring. It turned the tide.

Yours very truly,

83 WALL STREET
NEW YORK

June 20, 1917.



Dear Mr. Tesla:

Mr. Morgan directs me
to acknowledge receipt of your letter
of the 13th instant, and to say that
he hopes that your expectations will
very soon be realized.

Yours very truly,

A handwritten signature in dark ink, appearing to be "J. P. Morgan". The signature is written in a cursive style with a long horizontal line extending from the end.

Mr. Nikola Tesla,
8, West 40th Street,
New York.

The Waldorf-Astoria
New York.

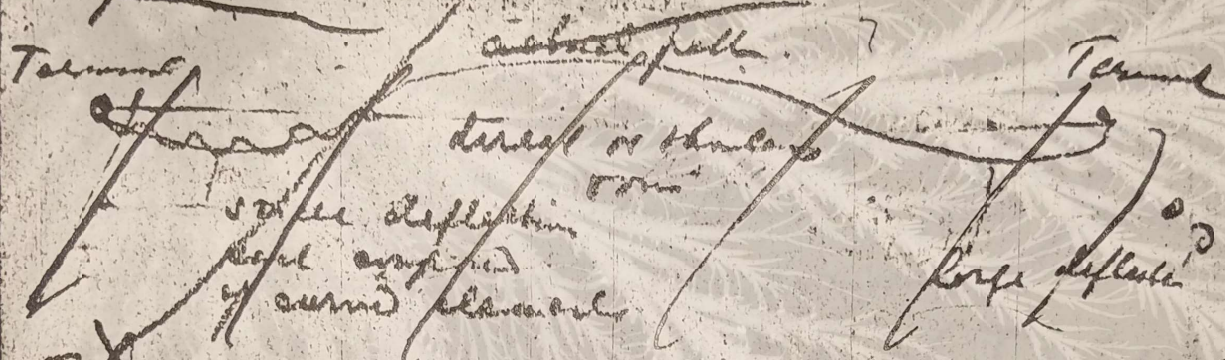
Dear Dr. Lang — Sept. 18 1917



I am glad to hear from the papers
that you have been successful in your
efforts. The following is a form of
the certificate accompanying the
Certificate in the name of the
University of the following
instrumentation.

You know that the following is a
drawing of the instrument in
question. The instrument is a
cylinder of the material. This is
the instrument. Every element of the actual pattern is
covered, if there are small details.

3) The large dimension from the
direct contact ~~is a right~~
~~thick - design~~ ~~is self -~~
~~conformable~~



The total increase up to length of the
branch has been working unimpaired. Several
have gone in ~~at~~ ^{at} 2% collection
Bessy ~~at~~

The business was sold, whereas he
the business was sold at 10%
and can find as the absolute loss
himself to ~~at least every~~
~~absolutely~~

Thus the carrying of the pellets and emigration
 loss of time in the passage in and
 the loss of direction of imperfect steering
 of emigration. There is waste of power
 only to the change of direction of
 the route of perambulation.

3) duration of intense
function due to change of speed
and load 4) those of energy storing to it

Duration of full and time of passage to
of an ignoring the ^{frequency}
occurrence ^{general}
dependence of the computer.

Now I come to the **PRACTICAL**
parts of this lecture:

The Induction Motor has
not ~~as~~ ^{much} problems as
the induction & synchronous but
it can nevertheless deal the
essence of this two by the
application of by ~~the~~ machine
of phase by ~~the~~ ^{the} ~~machine~~ ^{machine}.
In ~~the~~ ^{the} ~~motor~~ ^{motor} I will
explain the various ~~with~~
magnetic ~~induction~~ ^{induction} ~~which~~ ^{will}

enabling me to cross the
ocean in Boa Lines

~~of the same~~ ~~scholarship~~ ~~15%~~
~~for the~~ ~~one day~~ ~~on the~~ ~~boys~~
~~department~~ ~~for the~~ ~~first~~ ~~time~~

~~which is~~ ~~consequence~~ ~~there~~

~~was~~ ~~for~~ ~~a~~ ~~series~~ ~~of~~ ~~about~~

~~on~~ ~~it~~ ~~as~~ ~~the~~ ~~trips~~ ~~by~~

~~which~~ ~~for~~ ~~the~~ ~~purpose~~ ~~of~~ ~~the~~ ~~trip~~

~~which~~ ~~and~~ ~~Canada~~ ~~Central~~ ~~the~~

~~from~~ ~~the~~ ~~United~~ ~~States~~ ~~of~~ ~~America~~

~~Canada~~ ~~proportion~~ ~~of~~ ~~the~~ ~~total~~

~~there~~ ~~is~~ ~~no~~ ~~charge~~ ~~for~~ ~~the~~ ~~trip~~

~~The~~ ~~can~~ ~~find~~ ~~and~~ ~~do~~ ~~the~~ ~~work~~

~~in~~ ~~the~~ ~~past~~ ~~for~~ ~~the~~ ~~purpose~~

Yours truly,
J. M. [Signature]



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(Folder 2 of 2)

Jan. 6, 1922

J. P. Morgan, Esq.,
23 Wall Street,
City.

Dear Mr. Morgan:

I am often thinking of your father and yourself, gratefully remembering the splendid treatment I have received and my resolve is growing stronger every day to prove myself worthy of the confidence placed in me. My chances are excellent for I have made a number of very valuable inventions and, as regards the wireless, I believe that I am farther ahead of the art now than I was twenty years ago.

As you may see from the enclosed clippings, I have discovered a new mechanical principle enabling the production of speedometers of ideal simplicity, great accuracy, and extremely cheap construction which are proving a complete commercial success. We made an agreement some time ago with the Waltham Watch Company for the use of this invention on automobiles, trucks and other vehicles and the business is now firmly established and expanding rapidly. They have no difficulty in selling all they can manufacture and are enlarging their facilities so as to turn out these instruments in big numbers. There is not the slightest doubt that



J. P. Morgan, Esq.

-2-

as soon as this is done all other speedometers, of which from two to three million are produced annually, will have to be abandoned and mine generally adopted. In such case our income from this source might well amount to \$300,000. or more a year. Of course, just for the present, owing to limited equipment and business depression, the monthly production of the Waltham Watch Company is only from three to four thousand and our returns are temporarily small.

We still own the exclusive right to manufacture and sell the invention in the United States for all other purposes except indication of translatory speed of vehicles and we are in an exceptionally fine position to start at once a business which will be highly remunerative. It would not involve the least financial risk because the commercial success has already been achieved and my patent, which is of the most fundamental kind, has been sustained in court and can not be upset, this insuring monopoly for thirteen years.

We have a number of very good prospects here and in foreign countries where we are now represented by a well-known business man of great ability, but there is no asset immediately available for raising the capital required except this Waltham agreement and before proceeding further we would respectfully submit to you the following proposition.

We have made a careful estimate with our Manager of the outlays to be incurred and would require \$25,000. for launching this new business. There is due to you the sum of approximately \$40,000., this being the \$25,000. originally loaned with interest at 6 percent so that if you were disposed to furnish this working capital, our whole indebtedness to you would amount to \$75,000., as security for which we would assign to you our agreement with the Waltham Watch Company and, furthermore, pledge you the new enterprise. Inasmuch as I had an understanding with your father that he was to have one-third interest in my wireless undertaking, I assume that it would most nearly meet your wishes if we stipulate that after your loan of \$75,000. with interest has been paid in full, you would continue to receive one-third of the proceeds from the Waltham contract and our new business.



(Folder 2052)

J. P. Morgan, Esq.

-3-

As there are a number of things to be said in this connection I would deeply appreciate the favor of a short personal interview at your convenience which would give me an opportunity of elucidating matters.

With expressions of high regard, believe me

Yours most faithfully,



3 Enclosures

From B. A. Behrend's New Treatise on the Induction Motor:

"Not since the appearance of Faraday's 'Experimental Researches in Electricity' has a great experimental truth been voiced so simply and so clearly as this description of Mr. Tesla's great discovery of the generation and utilization of poly-phase alternating currents. He left nothing to be done by those who followed him. His paper contained the skeleton even of the mathematical theory."



"Were we to seize and to eliminate from our industrial world the results of Mr. Tesla's work, the wheels of industry would cease to turn, our electric wars and trains would stop, our towns would be dark, our mills would be dead and idle. So far reaching is this work, that it has become the warp and woof of industry."

Hotel St. Regis
New York

May 9. 1922.

J. P. Morgan & Co New York
Gentlemen,

Permit me to express my heartfelt
sympathy on the premature death of your
Mr. Dawson who has rendered such great service
to the world and added to the fame of your
Firm.

If J. P. Morgan & Co. could have been
so much gratified to see his judgment in
regard to the present and future condition of
the firm so completely confirmed.

Achilles was the prince of warriors and
the only person, but J. P. Morgan's
work as head of the firm was
characterized by the highest
long characterized by public humanity.

Yours respectfully

Viva Pera

J.P. MORGAN & CO.
Wall St. corner Broad.
New York.

DREXEL & CO.
Philadelphia.

MORGAN, GRENFELL & CO.
London.

MORGAN, HARJES & CO.
Paris.

New York, May 11th, 1922.

Nikola Tesla, Esq.,
8 West 40th Street,
New York City.

Dear Sir:

We are deeply touched by your message of
sympathy in the irreparable loss we have suffered in
the death of our Mr. Henry P. Davison.

With sincere thanks, we remain,

Yours very truly,

J.P. Morgan & Co



Nov. 21, 1924

Dear B. Meyer,



The mother's loss grips ours: heart more
powerfully than any other sad experience in life can.
We shudder at the individuality of the pain. &
+ leave except by painful condolences to you
have even said

I had the honor of friendly relations with Mrs. Morgan and have retained ~~my~~^{not} appreciable and vivid recollection of her person and of her personality. She was a true woman with feminine ideals, ^{one of the} rare type which has brought forth great races and has and the inevitable abolition of which through the spread of odious material ideas will prove a calamity as great as any that has ever befallen the world.

Yours most faithfully

J. Pierpont Morgan Esq.
23 Wall Street N.Y.

True

23 Wall Street
New York

July 17, 1930



Dear Mr. Tesla:

I received your letter of July 16th.
I mentioned it to Mr. Morgan but he does not feel
that he can take it up.

With all good wishes, I am

Sincerely yours

W. L. Morgan

N. Tesla, Esq.
Hotel Pennsylvania
Seventh Avenue and 33rd Street
New York City

November 29, 1934

J.P. Morgan, Esq.

The flying machine has completely demoralized the world, so much so that in some cities, as London and Paris, people are in mortal fear from aerial bombing. The new means I have invented affords absolute protection against this and other forms of attack...

These new discoveries which I have carried out experimentally on a limited scale, created a profound impression. One of the most pressing problems seems to be the protection of London and I am writing to some influential friends in England, hoping that my plans will be accepted without delay. The Russians are very anxious to render their borders safe against the Japanese invasion and I have made them a proposal which is being seriously considered.

(701212042)

Hotel New Yorker

November 29, 1934

J. P. Morgan Esq.

23 Wall Street

New York

Dear Mr. Morgan:



I have made discoveries of inestimable value which are referred in the marked passage of the clipping enclosed. Their practical applications should yield an immense fortune.

The flying machine has completely demoralized the world, so much that in some cities, as London and Paris, people are in mortal fear from aerial bombing. The new means I have perfected afford absolute protection against this and other forms of attack.

You know how your father assisted me in the development of my wireless system. He did not get any returns but I am convinced that if he were living he would be gratified by the knowledge that my inventions are universally applied. I still gratefully remember your own support although the war deprived me of the success I had achieved. I not only lost everything in those two undertakings but was for years compelled to pay off all sorts of unfair claims. It was only a little while ago that I managed to settle the last one and terminate the tormenting nightmare.

These new discoveries, which I have carried out experimentally

Yours

219

on a limited scale, have created a profound impression. One of the most pressing problems seems to be the protection of our lives, and I am writing to some influential friends in England hoping that my plan will be adopted without delay. The Russians are very anxious to render their borders safe against Japanese invasion and I have made them a proposal which is being seriously considered. I have many admirers there especially on account of the introduction of my alternative system to an extent unprecedented. Some years ago Lenin made me twice the succession very tempting offers to come to Russia but I could not tear myself from my laboratory work.

Words can not express how much I am aching for the same facilities which I then had at my disposal and for the opportunity of squaring my account with your father's estate and yourself. I am no longer a dreamer but a practical man of great experience gained in long and bitter trials. If I had now twenty five thousand dollars to secure my property and make concerning demonstrations I could acquire in a short time colossal wealth. Would you be willing to advance me this sum if I pledged to you these conditions?

Mr. Morgan you are still able to help an undying cause but how long will you be in this privileged position? We are in the clutches of a political party which caters openly and brazenly to the mob and believes that by pouring out billions of public money, still uncollected, it can remain in power indefinitely. The democratic principles are forsaken and individual liberty and incentive are made a joke. The "New Deal" is a perpetual motion scheme which can never work but is given a semblance of operation by unceasing supply of the people's expense. Most of the measures adopted are a bid for votes and some are destructive to established industries and decidedly socialistic. The next step might be the "distribution" of wealth by excessive taxing if not conscription.

With best wishes and respectful regards believe me to ever
yours most faithfully

N. T. C.

QZM

Anderson, Leif - Archival and Manuscript Collections - MSS 481

Library of Congress - John Pierpont Morgan
(Mr. and Mrs.) Nikola Tesla Correspondence - 1907-1934

(Folder 2 of 2)

Box 8
Folder 18

Anderson, Lealand - Author and Manuscript Collector - Library of Congress - George Westinghouse, JR (7228)
 M5 ESCHINGHOUSE GEORGE TWAIN MARK TWAIN
 Samuel Clemens (Mark Twain) (Box 7228) Nikola Tesla
 Correspondence - 1892 - 1910

Bop8
 Cider 20

NIKOLA TESLA CORRESPONDENCE --
 GEORGE WESTINGHOUSE, JR.
 9/13/92 - 8/19/10
 SAMUEL CLEMENS (MARK TWAIN)
 3/4/94, 11/17/98, and a third, undated.
 WESTINGHOUSE ELECTRIC & MANUFACTURING CO.
 12/13/98 - 5/22/41
 Xerographic prints from microfilm:
 L/C Microfilm Reels # 7228 (Geo. Westing-
 house, Jr. and Samuel Clemens) and # 7229
 (Westinghouse Electric & Mfg. Co.)

WESTINGHOUSE / CLEMANS

14 follows # 17

24 " 25

60 " 58

59 " 62

WEST. ELEC. CO.

4-7 " 121

57 " 8

365 " 385

382 " 108

184 " 124

STAR

GEORGE WESTINGHOUSE
TRADE MARK

①

NIKOLA TESLA MUSEUM BEOGRAD-YUGOSLAVIA

Beland - Archival and Manuscript Collections - Library of Congress - Carnegie Westinghouse, 1892-1900
Samuel Clemens (Mark Twain) (Born 1835) Nikola Tesla
Correspondence 1892-1900
Twain - Mark Twain
George Westinghouse
8028

CORRESPONDENCE

TESLA - WESTINGHOUSE GEORGE

CORRESPONDENCE

TESLA - CLEMENS SAMUEL / MARK TWAIN /

SAMUEL THOMAS GEORGE WESTINGHOUSE

SAMUEL CLEMENS (MARK TWAIN) (1835-1910) Nikola Tesla

Class 20

Box 8

CORRESPONDENCE

TESLA - WESTINGHOUSE GEORGE

FORM GGG 9544

SHAW-WALKER
MARK TWAIN

Samuel Clemens (Mark Twain) (1834-1910)
Correspondence 1849-1910

Box 8
C100.10

Shaw-Walker - Arrival and Manuscript
Collection

SAMUEL CLEMONS (MARK TWAIN) (BORN 7228) NIKOLA TESLA
 1872-1910
 CLIDERIN

CHARLES A. RUCH, CONSULTANT/HISTORIAN

MARK TWAIN

SAMUEL CLEMENS (Mark Twain) (Reel 7228) Niles-Tesh
Correspondence - 1892 - 1910

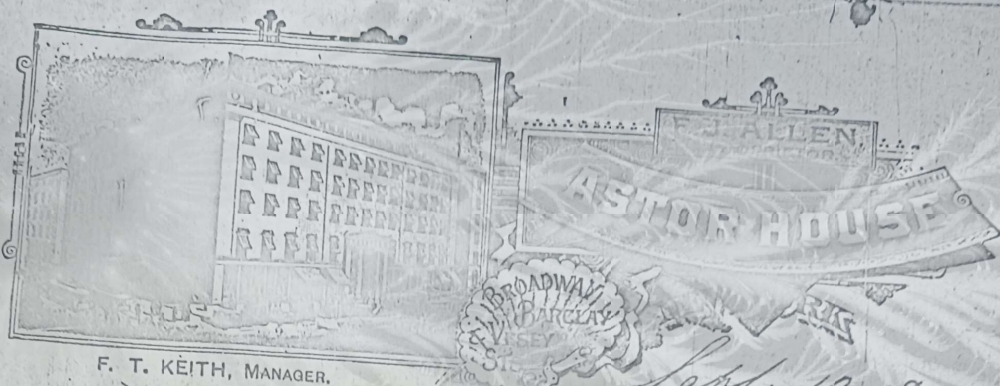
17028
C. l. d. r. n.

A plausible reason for this is the fact that over the years Westinghouse has been rather reticent about its history. George Westinghouse himself was of that persuasion. He prided himself on keeping no personal records. Original letters signed by George Westinghouse are more scarce than those signed by George Washington.

George Westinghouse hated to have his picture taken. His most notable portrait was a time exposure taken secretly through the door of a nearby washroom as he sat looking over some drawings at his favorite desk in the drafting room. Fortunately this scheme -- planned days in advance -- worked to perfection. If you saw the original negative, there would be a man at the side of the desk, off to the right, and some files in the background. A skillful retoucher made them disappear, like a David Copperfield illusion.

SAMUEL MARK TWAIN

SAMUEL CLEMENS (MARK TWAIN) (DECEMBER 7, 1834 - APRIL 21, 1910) NIKOLA TESLA



F. T. KEITH, MANAGER.

Sept. 12 1892

Dear Mr. Westinghouse,



I called at your office this morning and was disappointed to learn that you were in Lenox.

One of the objects of my visit was to inform you that Mr. Luch of the "Helion" Co. of Cologne (who have purchased my motor patent for Germany) will be to-morrow in Pittsburgh. He has been sent here to gather information about Railway systems and alternating motors. I have been consulted about your electric railway system and I have warmly recommended it to them - as I sincerely believe that it is the best I think that you may make an arrangement with "Helion" for the introduction of your railway system in Germany. Of course it would be one of question to get a large sum, as there are no foundation patents, but

Evening Post
Sept 13 1892
Dinner at Lenox
one

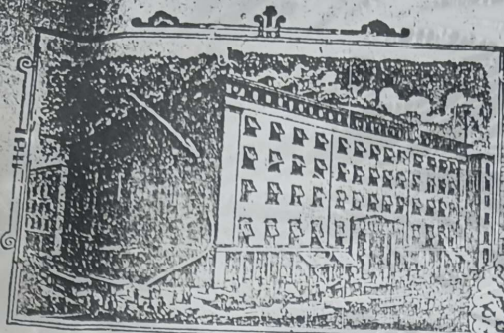
ASTOR HOUSE

Collection of Nikola Tesla's Papers - General Westinghouse, 1892-1910
Scribble Clearing (M. L. T. W. M.) (Box 7228) Nikola Tesla

8098

Please do not fail to inform your staff to aid me in all they can.
My conviction is that a motor without brushes and commutator is the
only form which is capable of permanent success. To introduce other
forms I consider a waste of time and money.
I believe they would be ready to make a small
cash payment and pay a moderate royalty. I have
done what I could to facilitate an understanding
and they will approach to you with the subject.
We have ^{truly} succeeded in bringing about an arrange-
ment for the introduction of my motor in the
European continent. The patents are ^{in the hands of the} the
heads of three of the most powerful companies
and they are earnest in their intention to
push the manufacture. The introduction of
the motor in Europe on an extensive scale will,
~~there~~ doubt, have a very favorable influence
upon the value of my American patents which
are owned by your Company. It is of common
interest that Mr. Schuch be shown all that can
be shown and I would beg you ^{to send the address} to write upon
receipt of this to Mr. Schmidt to take him
through the shop. Mr. Schuch is a trusted en-
gineer of the Helios Co and this is not the
slightest danger of his abusing of the infor-
mation he receives. I intend myself to go
to Pittsburgh this evening if I can manage to
find time; I must consult Mr. Schmidt about the
specdy carrying out of some improvements on the new
motors. It is necessary to bring the motor to high perfection
before the Exhibition as this is of prime importance.
~~I hope that you will still be able to give me all the aid~~
I hope that you will still be able to give me all the aid
pay attention to this communication and

WILLIAMS - GEORGE WASHINGTON (1872-1910) (Box 7228) NIKS 754
8008



F. T. KEITH, MANAGER.



Sept. 12 1892

Dear Mr. Westinghouse,



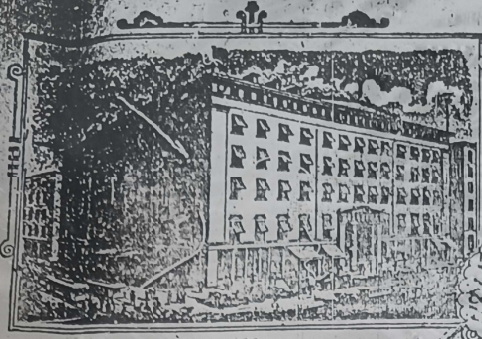
I called at your office this morning and was disappointed to learn that you were so busy.

One of the objects of my visit was to inform you that Mr. Luchs of the "Helio" Co. of Cologne (who have

one of the objects of my visit was to inform you that Mr. Luchs of the "Helio" Co. of Cologne (who have purchased my motor patent for Germany) will be to-morrow in Pittsburgh. He has been sent here to gather information about Railway systems and alternating motors. I have been consulted about your electric railway system and I have warmly recommended it to them - as I sincerely believe that it is the best. I think that you may make an arrangement with "Helio" for the introduction of your system in Germany. Of course it would be out of question to get a large sum, as there are no foreign patents, but

Don't know what to do about the one for the Helio Co.

One of the objects of my visit was to inform you that Mr. Luchs of the "Helio" Co. of Cologne (who have purchased my motor patent for Germany) will be to-morrow in Pittsburgh. He has been sent here to gather information about Railway systems and alternating motors. I have been consulted about your electric railway system and I have warmly recommended it to them - as I sincerely believe that it is the best. I think that you may make an arrangement with "Helio" for the introduction of your system in Germany. Of course it would be out of question to get a large sum, as there are no foreign patents, but



F. T. KEITH, MANAGER.

BROADWAY
BARCLAY
STREET

Sept. 12. 1892

Dear Mr. Westinghouse,



I called at your office this morning and was disappointed to learn that you were so leisurely.

One of the objects of my visit was to inform you that Mr. Linder of the 'Helios' Co. of Cologne (who have

one of the objects of my visit was to inform you that Mr. Linder of the 'Helios' Co. of Cologne (who have purchased my motor patent for Germany) will be to-morrow in Pittsburgh. He has been sent here to gather information about Railway systems and electric motors. I have been consulted about your electric railway system and I have warmly recommended it to him as I sincerely believe that it is the best. I think that you may make an arrangement with 'Helios' for the introduction of your system in Germany. Of course it would be out of question to get a large sum as there are no foreign patents, but

From the office of Mr. Keith
Sept. 12. 1892



The Gerlach

FAMILY HOTEL

27TH ST. BETWEEN BROADWAY & 6TH AVE.

New York Septemb. 27 1892

Westinghouse Electric Company



Pittsburg.

In order to carry out some improvements
on my motor it is necessary for me to have
some of your apparatus on hand. I should
have informed me at our recent meeting with
Mr. Westinghouse in New York that there
is a small four pole alternator with
two armatures, one for two phase and the other
for three phase ^{circuits} ready and to be had.
I would want this machine with the
two armatures and in addition a
small direct current machine of a capa-
city of 50 lights and also a few of
your transformers for conversion to 50

or hundred volts and of a total capacity of ~~about~~ ^{at least} 100 lights. All this apparatus will be returned to you when you elect and in such good ^{condition} ~~shape~~ as reasonable wear will permit.

I have spoken about this matter
to Mr. Westinghouse and hope that
he has already referred it to you so
that no time is lost in forwarding
this ~~matter~~ ^{application} to my laboratory and to
to Goldschmidt and Geigheyer 33 & 35 South
Fifth ave. New York.

I would earnestly urge you to ex-
p. as soon as possible with this request
as ~~the~~ time is very precious.

Yours very truly
W. Tesla

MARK TWAIN

Samuel Clemens (Mark Twain) (Reel 7228) Nikola Tesla
correspondence 1872-1912

Box 8
Cider 22



New York, Dec. 7 1892

Dear Mr. Westinghouse,

I have not been able to understand how Brown & Hovery & Siemens & Halske can offer to transmit power with my system in this country and I have written a letter to Mr. Patterson expressing to him my surprise at this communication.

I have learned to day that multiphase apparatus for a large power transmission is being built in Germany for use in this country by the Siemens & Halske Co.

I am therefore expecting the transmission of power by last improved system. These transmission lines have been built in weeks ago and I fear there is some misunderstanding about them.

Copy

Very sincerely yours
W. T.

MS. A. 9.2
Hudson, Leonard - Archival and Manuscript
SAINT MARK TWAIN
Samuel Clemens (Mark Twain) (1834-1910)
Collection
Box 8
10



The Gerlach

STRICTLY FIRE PROOF
FAMILY HOTEL.

27TH ST. BETWEEN BROADWAY & 6TH AVE. ©

New York Dec. 23 1892

Dear Mr. - Wishinghouse,



Mr. J. C. Martin of the Electrical
Engineer has forwarded to me enclosed
letter concerning a transmission of power
in S. C. with his consent to use it
as a reference. I have thought Mr.
Martin might be able to supply the
required apparatus.

Kindly return letter

Yours very truly

N. Tesla

MARK TWAIN
Correspondence 1892-1910
(Elihu Thomson) (Mark Twain) (Reel 7228) Nikola Tesla
0008
Clerkin



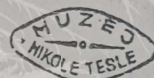
The Gerlach

STRICTLY FIRE PROOF
FAMILY HOTEL.

27TH ST. BETWEEN BROADWAY & 6TH AVE. ©

New York Dec. 23 1892

Dear Mr. Westinghouse,



Mr. J. C. Martin of the Electrical Engineer
has forwarded to me enclosed letter ex-
pressing a transmission of power to S. C.
with his consent to use it as a
reference. I have thought that you
might be able to supply the required
apparatus. Kindly return ~~enclosed~~ letter.

Yours sincerely
N. Tesla

ORIGINAL IN
GERLACH

RECEIVED (MARTIN) (Dec 1 7 20) NIKOL TESLA
CORRESPONDENCE - 1892-1910

Box 8
Cleveland

187.
46, E. Houston St.,

New York City, April 13th, 1895.

Mr. George Westinghouse, Jr.,

New York City.

Dear Mr. Westinghouse:-

Since some time, my friend, Hubert Vos, the great portrait painter has been sojourning in this city. I have very often spoken to him about you, and I feel that he has an idea of your personality such as would enable him to make of you a portrait which would be a very valuable addition to the art. I suppose that, under the pressure of your many engagements, you have not, as yet, found moments of leisure to devote to such a purpose and, thinking that you might feel that it is in a certain measure your duty to do so, I would call your attention to this favorable opportunity.

Very truly yours,



399

46, E. Houston St.,
New York City, June 15th, 1895.

Mr. George Westinghouse, Jr.,
New York City.

1897
162-352



Dear Mr. Westinghouse:-

Noting your efforts to warn the public against infringements on my multiphase motor patents, I am prompted by a feeling of friendship to point out to you personally that your advertisements do not bring out clearly the fact that these patents cover not one, but a number of lines of almost equivalent importance in the practical introduction of the system, but rather make it appear to the uninformed that all is dependent upon a single feature. You can readily see that with a few words your statements may be rendered much stronger, and will more exactly express the state of things.

I would on this occasion call your attention to another point. A few years ago, when the advantages of my system were discussed by some experts, I dwelt on the fact that when a great number of motors and lamps and other devices is worked on the multiphase system the efficiency of the system as a whole must be higher than the average efficiency of a single motor. Since you have a large plant now in operation, the truth of my assertion may now be practically tested. If you will measure the steam consumption, you will necessarily find that the results are better than can be obtained with the direct current system, although it is quite possible that a single direct current motor might give a slightly better result than a single alternating motor.

Very truly yours,

55W
MARK TWAIN
6161-2281-32-404-1100
15

Westinghouse Electric & Manufacturing Company.

120 BROADWAY,

NEW YORK, N. Y.,

June 18th, 1896.

N. Tesla, Esq.,

46 East Houston St., City.



Dear Mr. Tesla:-

I have your favor of the 15th inst. which shall receive my best attention. I am obliged to you for writing to me on the subject. We are anxious to give as much prominence as possible to every feature in connection with your inventions.

Truly yours,

Geo. Westinghouse Jr

187-399

16²-35²

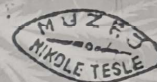
46, E. Houston St.,

New York City, August 7th, 1895.

Mr. George Westinghouse, Jr.,

New York City.

My dear Mr. Westinghouse:-



I learn from the journals of your friendly agreement with the Baldwin Locomotive Works. Foreseeing the electrical railroad development, I have often thought on the advantages of such a co-operation, and long time ago I had in mind to speak to you about it. The news of your consolidation has been an agreeable surprise for me. Such a splendid union of means and abilities cannot fail to be of interest to both parties concerned.

Yours very truly,

Westinghouse Electric & Manufacturing Company,

120 BROADWAY,

NEW YORK, N. Y.

August 8th, 1895.

N. Tesla, Esq.,

No. 46 East Houston St.,

N.Y. City.

Dear Mr. Tesla:



I am much obliged to you for your letter of August 7th. It is another indication of the interest you have taken in the Westinghouse Electric and Manufacturing Co. We all think that the business arrangement entered into with the Baldwin people will be productive of good results.

I hope the time is not far distant when you will feel that you can make a visit to our new works at Pittsburgh to observe the operation of your motors in daily practice as well as to get a comprehension of our facilities.

Very truly yours,

W. Westinghouse Jr.
President.

46, E. Houston St.,

New York City, August 24th, 1895.

Mr. George Westinghouse,
New York City.

110
187-399

Dear Mr. Westinghouse:-



Professor L. B. Atkinson of the South Wales Institute of Engineers, has written me a letter asking for some data of tests with alternate current motors. I believe that he is prompted by friendly motives and would make fair statements. If you are inclined to have anything published, it would be well to do ^{it} through him. Perhaps you intend to send some motors to England, and in such event their performances will have to be announced.

You will oblige me, if you will remember Professor Atkinson on any future occasion of this kind, but of course I do not wish to influence your decision in any other way.

Yours sincerely,

W
GEO. WESTINGHOUSE, JR.
PITTSBURGH, PA.

August 16th, 1895.

N. Tesla, Esq.,

46 E. Houston Street, New York.

Dear Mr. Tesla:- I have your favor of the 14th, and will send it to the office at East Pittsburgh so that our people there may deal with the matter according to your wishes.

Very truly yours,

G. Westinghouse



Esq.

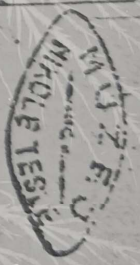
Houston Street, New York.

Asia:-

I have your favor of the 14th, and will send
office at East Pittsburgh so that our people there
with the matter according to your wishes.

Very truly yours,

W. Westinghouse



SAMUEL CLEMENS (MARK TWAIN) (Reel 7228)
Correspondence - 1892 - 1910
AM
MHC

COPY.

E. D. Adams, Mills Building, New York.



Commodore Melville has signified the seventeenth as a satisfactory day to leave for Pittsburg. The arrangement is to go from Washington via Philadelphia, where we will dine at club with T. N. Ely, of Penna. R. R., leaving for Pittsburg 10:25 P.M., going to Niagara Falls Saturday night. Will this suit you and Mr. Tesla, to whom kindly send copy of this telegram. You and Mr. Tesla would leave New York on 4:30 P.M. train on 17th

Geo. Westinghouse. July 10th, 1896

GEO. WESTINGHOUSE, JR.
PITTSBURGH, PA.

July 10th, 1896.



Nikola Tesla, Esq.,

Care Mr. E. D. Adams, Mills Building, New York.

Dear Mr. Tesla:- Some two or three weeks ago I spoke to Mr. Adams with reference to a proposed visit of Commodore Melville, of the Navy, to our Works at East Pittsburgh, and to Niagara Falls being particularly desirous of having the Navy Department become acquainted with the advantages of the multiphase system for all sorts of operations aboard war vessels. The Commodore was obliged to postpone the trip on account of the letting of contracts for some new war vessels, but he is now ready, and it is proposed to leave Philadelphia on Friday evening the 17th.

Mr. T. N. Ely, the Chief of Motive Power of the Penna. R.R., who will go with us, has invited us to dine with him at the Philadelphia Club Friday evening.

I sent to Mr. Adams a telegram of which I enclose you a copy. You and Mr. Adams could leave New York on the 4:30 P. M. train, and we will meet you at the Broad Street Station,

GEO. WESTINGHOUSE, JR.
PITTSBURGH, PA.

2

Philadelphia, and then join Mr. Ely for dinner.

I am looking forward with much pleasure to this trip,
and trust it is going to be entirely convenient for you to make
it.

Truly yours,

Geo. Westinghouse



Correspondence - 1872 - 1910 (Buel 7228) Nikola Tesla

0008
Class in

Westinghouse Electric & Manufacturing Company.

120 BROADWAY,

NEW YORK, N. Y., June 21st, 1897.

Nikola Tesla, Esq.,

The Gerlach, 27th St. & B'way, City.

Dear Dr. Tesla:-

Please accept my thanks for your letter of June 18th:

I feel greatly indebted to you for the interest you have taken in this matter and have no doubt that what you said to Mr. Stewart has had great weight in turning the contract our way. It is most gratifying to us to be able to say that we have received both the Niagara Falls and the Mesina Power contracts.

Very truly yours,

Geo. Westinghouse

MUZEJ
 SINGLE TESTE

Samuel Clemens (Mark Twain) (Reel 7228) Nikola Tesla

MARK TWAIN

MS 171

SAMUEL CLEMONS (MARK TWAIN) (Boel 7228) Nikola Tesla
Correspondence - 1892 - 1910

Box 8

23

New York, Oct. 15th, 1897.

220 & 40 E. Houston Str.

Mr. George Westinghouse, Jr.

Penn., Mass.

Dear Mr. Westinghouse:-

227
248
343



I have to ask a favor of you which, I hope, will be consistent with your interest to give without undue sacrifice.

A representative of the Association Schneider & Co., of Grausot, France, M. Auguste Boissonnas, is here and I have given him a cordial letter of introduction to you. He is chiefly interested in the development of rapid electric traction, particularly in alternating currents and their application to such uses for long distance transmission, and as I entertain the highest esteem for my associates and am most anxious to maintain my friendly relations with them, I would beg you to facilitate to Mr. Boissonnas an inspection of your admirable works. You need not in the slightest apprehend that an advantage will be taken, for these people are of the highest standing, and if they would see anything that it would be to their interest to acquire, they would meet you in a loyal way.

4

MS
MARK
SAMUEL CLEMENS (MARK TWAIN) (1834-1910)
1892-1910
C1101.11



... I understood him to say, will leave here
Friday evening and might be in Pittsburgh Saturday or early next
week. You would greatly oblige me if you would by telephone or

otherwise issue directions that we be received in a friendly man-

ner. I am most anxious to show you the extensive and old

collection of the papers and other material for the study of our

history.

Very truly yours,

Yours sincerely,

$$\begin{array}{r} 226 \\ \times 2 \\ \hline 452 \end{array}$$


Dr. Geo. Washington, Jr.,

100-678

END R. S. 09. 11. 1904.

Yours Sincerely,

GEORGE WESTINGHOUSE,
ENGINE PARK, LENOX, MASS.

October 17th 1897.

Mr. Nicola Tesla,
46 & 48 East Houston Street,
New York.



Dear Mr. Tesla:

Your letter of the 15th came into my hands yesterday a little after four o'clock, on my arrival from Boston.

I am just telegraphing Mr. B. H. Warren, Vice Pres't of the Company, as follows:

"Mr. Tesla desires that we should give Mr. Auguste Boissonas, of Schneider and Co., Paris, an opportunity to fully observe the operation of the Tesla motors and of viewing our workshops. Kindly see him yourself and give him the desired facilities. Mr. Tesla expected him to be in Pittsburg Saturday or early this week. Introduce Mr. Boissonas to Mr. Keller and to my brother." and I feel assured that Mr. Boissonas will have the desired opportunity.

You will note from my telegram that I have asked Mr. Warren to introduce Mr. Boissonas to Mr. Keller, of the Westinghouse Machine Company where they are making a very wonderful gas engine, and to my brother, Mr. H. H. Westinghouse, Manager of the Air Brake Company.

If Mr. Boissonas has not already gone to Pittsburg, could you not go out and spend a day there with him? Unfortunately I am likely to be obliged to remain in the east all of next week.

Very truly yours,

G. Westinghouse

P. S. Will be in my office Tuesday.

MARK TWAIN

SAMUEL CLEMENS (MARK TWAIN) (Box 7228) Nikola Tesla
Correspondence - 1892-1910

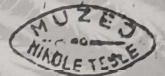
Box 7228
Clemens

248

Rich, Oct. 18, 1891.

Mr. George Westinghouse,
120 Broadway,

226-227
348

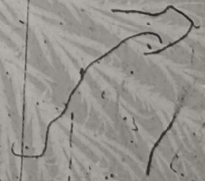


Dear Mr. Westinghouse:

I have just received your letter of
Oct. 17th, and also the plan for the attention of the
first of the series of lectures on the subject of
the history of the electric light and power
industry, which you have kindly offered to
give at the request of the American Society
of Mechanical Engineers. I am very glad to
hear that you are going to give this course
of lectures, and I am sure that it will be
of great interest and value to the members
of the Society. I am sure that you will
be able to give them a very interesting and
valuable course of lectures.

I am very glad to hear that you are
looking over some of the plans for the
first of the series of lectures on the subject
of the history of the electric light and power
industry, which you have kindly offered to
give at the request of the American Society
of Mechanical Engineers. I am sure that you
will be able to give them a very interesting
and valuable course of lectures.

Yours very truly,



ORIGINAL
MAILED
OCT 22 1891
CORRESPONDENCE - 1892-1910
(Vol 4228) N. K. A. TEST
CLARENCE

343

New York, Dec. 4th, 1897.

40 or 41 E. Houston Str.

226-227

248

Mr. George Westinghouse, Jr.,

120 Broadway,

New York City.



Dear Mr. Westinghouse:-

I enclose letter just received from the
land, which might interest you. Kindly return it after perusal.

I shall write these parties as communicate with you in
the matter.

Yours very truly,

W5
GEO. WESTINGHOUSE.

PITTSBURGH, PA.

Dec. 7th. 1897.

Mr. NIKOLA TESLA,

c/o Tesla Electric Co., New York.

Dear Mr. Tesla:-

I have your favor of the 4th., enclosing a letter from Patterson, Cooper & Co., of which I shall send a copy to our London house. I trust the matter will receive prompt attention, to the mutual advantage of all parties concerned.

Yours truly,

G. Westinghouse



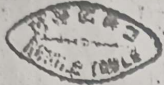
110
New York, March 25th, 1893.

140 & 142 E. Houston St.

Mr. George Westinghouse, Jr.,

120 Broadway,

New York City.



O.
158

Dear Mr. Westinghouse:-

Prince Albert of Belgium, when visiting my laboratory the week before last, told me that he intended to see the plant at Niagara. I have no doubt that he would be interested in inspecting your works as well as in meeting you personally, knowing you to be one of the great pillars of the electrical industry in this country. I am prompted by the interest I feel for you to ask whether you would not extend to him such an invitation and, perhaps, offer him your hospitality on his visit to your works and Niagara Falls. It might not be only a matter of pleasure for you to meet him, but his personal acquaintance may also have an important bearing upon the development of some of your foreign affairs, for he is soon to be in a position of great power, being the heir presumptive to the Belgian throne. He is a very modest, unassuming young fellow who seems to form friendships quickly.

Should you think it necessary to communicate with me in the matter, your letter will find me here, although it is not at all necessary. Prince Albert was in Philadelphia yesterday, and you will learn of his further movements through the Belgian Consulate.



Yours sincerely,

55W

SHAW-WALKER TWAIN

6061-2181-32-14451100

371

Geo. Westinghouse,
Pittsburgh, Pa.

March 30th. 1893.



Mr. Nikola Tesla,

New York.

Dear Mr. Tesla:-

I thank you for your favor of the 27th. of March. I note that Prince Albert of Belgium is proposing to visit the plant at Niagara. I am at a loss to know just what to do in regard to inviting him to visit Pittsburgh. From some friends in Philadelphia I learned that he was making his own plans and declined any special attention. I am to be in New York Friday, and if you are down town between two and three o'clock I should be glad to see you at my office, when we can have a little talk in regard to this matter.

Yours truly,

Geo. Westinghouse

New York, April 26th, 1898.

#46 & 48 E. Houston Str.

110 (mixing)
191 195
432, 433, 434, 435

Mr. George Westinghouse, Jr.,

Pittsburgh, Pa.

Dear Mr. Westinghouse:-



I take the liberty to introduce to you herewith Mr. Friedrich Ross, who is connected with some of my friends and associates in Germany. He is anxious to see your admirable plant in Pittsburgh, and I would be much obliged to you for any courtesy extended to him on his visit.

With thanks I remain,

Yours sincerely,

196

New York, May 16th, 1898.

#46 & 48 E. Houston Str.

191
196

437, 433, 436, 465

Mr. George Westinghouse, Jr.
Pittsburgh, Pa.



Dear Mr. Westinghouse:-

Your letter referring to Prince Albert has
just been received.

I have written to the Belgian Consul and have suggested
that he should transmit the wishes of the Prince to you directly.

Believe me to be,

Yours very truly,

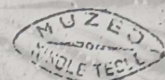
GEO. WESTINGHOUSE,
PITTSBURGH, PA.

#120 Broadway, New York, N.Y.,

May 19th, 1898.

Nikola Tesla, Esq.,

#46 East Houston St., City.



Dear Mr. Tesla:-

I have just arrived in New York and find your letter of the 16th inst. I received a letter from the Belgian Vice Consul Mr. Mali saying that he had sent the letter I wrote you to Counsellor Joostens at the Auditorium Hotel, Chicago.

I had a conference with the Belgian Minister and have in consequence written formally to Counsellor Joostens through him inviting the Prince and his party to be the guests of myself and Mrs. Westinghouse while in Pittsburg, and have laid out an inspection tour which I trust will be satisfactory to them.

Thanking you for your letters I am,

Very truly yours,

G. Westinghouse

P.S. I am leaving tonight for Lenox with the expectation of being back here Saturday morning and leaving again at one o'clock for Washington.

P.P.S. I have just received a telegram from Counsellor Joostens accepting the invitation of Mrs. Westinghouse and myself.

191

New York, N. Y., 10th, 1900.
410 to 430 R. Houston Str.

158
195

Mr. George Westinghouse, Jr.,
120 B'way, N. Y. City.

My dear Mr. Westinghouse:-

I am informed through the Secretary of the
Belgian Legation that His Highness Prince Albert expects to be in
Pittsburgh about the 20th and 22th of May.



I hope that this time will be convenient for you. Prince
Albert, I understand, is greatly pressed for time and will not be
able to stay in Pittsburgh probably more than twenty-four hours.
It was please you to learn that he expressed himself through the
Secretary in a most appreciative manner about yourself and your
labors. While he did not exactly state that he would accept your
hospitality, I believe that he will avail himself readily of the
opportunity of knowing something more of a man, who has contributed
so important a share to electrical progress.

If you will kindly let me know, at your earliest conve-
nience, what to answer, I shall be pleased to transmit your mes-
sage.

Yours sincerely,

432

NEW YORK, Nov. 29th, 1898.

158, 191, 195, 197
433
436
465
13 E. Houston St.

Mr. George Westinghouse, Jr.,

120 Broadway,

N. Y. City.

Dear Mr. Westinghouse:-



Owing to some unforeseen outlay I am compelled to ask through your kind intervention, which I hope you will grant, of your Company a loan of \$6,000. I shall return the money within three months.

As I do not owe any money to any one, my personal property, though small, would be ample security for this amount, but in order to obviate any possible loss to your Company I wish to pledge herewith my rights to the English royalties.

Assuring you that your personal kindness as well as the considerate treatment by your Company will not be forgotten, I remain,

Yours sincerely,

MARK TWAIN

GEO. WESTINGHOUSE.
PITTSBURGH, PA.

#120 Broadway, New York, N.Y.

November 29th, 1898

N. Tesla, Esq.,

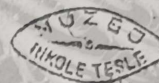
#46 & 48 E. Houston St., City.

Dear Doctor Tesla:-

I have just received your letter and take pleasure in saying that the Company will loan you the \$6,000 according to the terms of your letter. You will kindly call upon Mr. Ph. Ferd. Kobbe Treasurer of the Company between two and three o'clock tomorrow and he will arrange the details with you.

Truly yours,

GEO. WESTINGHOUSE



433

New York, Nov. 30th, 1896.

46 & 48 E. Houston Str.

432
436

158, 191, 195, 465

Mr. Geo. Westinghouse, Jr.,

120 Broadway,

New York City.

Dear Mr. Westinghouse:-



Acknowledging your kind letter of even date,
I wish to again express my thanks for your readiness to aid me in
the matter, which I have appreciated as much as the service itself.

Yours very truly,

GEO. WESTINGHOUSE.
PITTSBURGH, PA.

New York,
December 1st. 1898.

Dr. Nikola Tesla,
46 & 48 E. Houston street,
New York.

Dear Doctor Tesla:-

After you left me yesterday I determined to write you without loss of time with reference to your device for commutating alternating into direct currents. Just at the present time there is great use for something of that sort. I would like to know if you have advanced far enough with your patents and experiments to be now in a position to let the Westinghouse Electric & Mfg. Co. undertake the manufacture of such apparatus upon reasonable terms. You will appreciate of course the particular advantage it would be to you personally to have such an important device put upon the market by the Westinghouse Company. Can you tell me how large an apparatus you have made? and how many h.p. of energy such apparatus will transform? And I should like to know the voltages you have operated it with so far.

Yours truly,

Geo. Westinghouse



SAMUEL MARK TWAIN

1898-1899

NIKOLA TESLA

CLARK

436
New York, Dec. 8th, 1893.

433
465
158,191,195,432
MUSEE
H. KOLETSE
44

Mr. Geo. Westinghouse, Jr.,
120 Broadway,
New York City.

Dear Mr. Westinghouse:-

I have not been feeling well enough for the last two or three days to attend to my correspondence, otherwise your kind letter of Dec. 1st would have been at once answered.

I wish to tell you, in answer to your inquiry, that I have bestowed much more time upon this subject than you might have thought. I have not one, but a number of devices which I propose to put on your circuits, and for all of them there is a great demand. Just as soon as I shall have completed an arrangement of vital interest to myself which, I expect, will be in the course of two or three weeks, I shall be in the position to approach you with the matter. You may believe me that I shall use my best efforts to advance your interests while furthering my own.

Yours sincerely,

SAMUEL JOHNSON
MARK TWAIN

1893-1894
2281-1894

436

New York, Dec. 24, 1893.

740 to 750 E. Houston Str.

433

465

158, 191, 195, 432



Mr. Geo. Westinghouse, Jr.,

120 Broadway,

New York City.

Dear Mr. Westinghouse:-

I have not been feeling well enough for the last two or three days to attend to my correspondence, otherwise your kind letter of Dec. 1st would have been at once answered.

I wish to tell you, in answer to your inquiry, that I have bestowed much more time upon this subject than you might have thought. I have not one, but a number of devices which I propose to put on your circuits, and for all of them there is a great demand. Just as soon as I shall have completed an arrangement of vital interest to myself which, I expect, will be in the course of two or three weeks, I shall be in the position to approach you with the matter. You may believe me that I shall use my best efforts to advance your interests while furthering my own.

Yours sincerely,

SAMUEL MARK TWAIN

Copyrighted by Samuel Mark Twain 1893-1910

441

MS 4
Adams, Ireland - Archival and Manuscript Collections - Library of Congress - George Westinghouse, JR (7228)
Samuel Clemens (Mark Twain) (Box 7228) Nikola Tesla
C-10000
B098
44

436

New York, Dec. 8th, 1893.
140 & 40 E. Houston Str.

433
465

158, 191, 195, 432



Mr. Geo. Westinghouse, Jr.,
120 Broadway,
New York City.

Dear Mr. Westinghouse:-

I have not been feeling well enough for the last two or three days to attend to my correspondence, otherwise your kind letter of Dec. 1st would have been at once answered. I wish to tell you, in answer to your inquiry, that I have bestowed much more time upon this subject than you might have thought. I have not one, but a number of devices which I propose to put on your circuit, and for all of them there is a great demand. Just as soon as I shall have completed an arrangement of vital interest to myself which, I expect, will be in the course of two or three weeks, I shall be in the position to approach you with the matter. You may believe me that I shall use my best efforts to advance your interests while furthering my own.

Yours sincerely,

GEO. WESTINGHOUSE,
PITTSBURGH, PA.

New York,
December 8th. 1898.

Mr. Nikola Tesla,

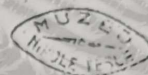
New York City.

Dear Doctor Tesla:-

I have just returned from Pittsburgh and find your letter of the 5th. of December. A matter of great importance to me just now is the question of a simple and economical device for converting alternating to continuous currents, and I hope that you will let me know about this with as little delay as possible. In the meantime I trust that you will speedily complete the arrangements which you say are of vital interest to you.

Yours truly,

GEO. WESTINGHOUSE



465

New York, Dec. 12th, 1898.

Mr. Geo. Westinghouse, Jr.,

436

158, 191, 195, 432, 433

Mr. Geo. Westinghouse, Jr.,

Pittsburgh, Pa.

Dear Mr. Westinghouse:-



Although your kind letter of Dec. 6th does not require an immediate answer, I wish to assure you that I am making no effort to bring these devices on the market as soon as possible. I am confident that the arrangements to which I have had reference in my last letter to you will be completed soon, as I have the assurance to that effect of men who are beyond any doubt.

Nonetheless it will be one of my most sincere hopes that my labors may result in a personal advantage to you.

Yours sincerely,

GEO. WESTINGHOUSE.
PITTSBURGH, PA.

New York,
April 20th. 1899.

Dear Mr. Tesla:



I was sorry not to see you when you were in, but my engagement was such that I could not come from the Club to see you. This letter will be handed to you by Mr. Mershon, who knows all about the electric light and power matters in and about Pike's Peak, having been connected with the Colorado Electric Power Company. I have asked Mr. Mershon to give you all the information in his power, and if there is anything further that can be done, in the way or letters or otherwise, I shall be glad to render any assistance possible.

Very truly yours,

G. Westinghouse

Nikola Tesla, Esq:

46 East Houston st.,

New York.

238

New York, April 11, 1944.

THE UNIVERSITY OF CHICAGO



New York, April 21st, 1899

46 & 48 E. Houston St.

Mr. George Westinghouse, Jr.

120 Broadway

New York City

Dear Mr. Westinghouse :-

New York, Jan. 22nd, 1902.

40 & 42 East Houston Str.

Mr. George Westinghouse, Jr.,

Pittsburgh, Pa.

Dear Mr. Westinghouse:-



Please receive the following communication as a personal one. I have just returned from Colorado, where I have been carrying on some experiments since a few months past. The success has been even greater than I anticipated, and among other things I have absolutely demonstrated the practicability of the establishment of telegraphic communication to any point of the globe by the help of the machinery I have perfected. In carrying out the plan I shall want a direct connected engine and dynamo of at least three hundred horse-power, but preferably more, on either side of the Atlantic, and as this would involve a considerable expense which, in view of the apparent impossibility of the problem, and also because of a panicky feeling all around, I fear I would have difficulty in securing, I wish to ask you whether you would not meet me on some fair terms in furnishing me the machinery, retaining the ownership of the same and interesting yourself to a certain extent in a way which I cannot yet clearly specify, but which might be found after a mutual exchange of ideas on the subject. I am naturally prompted by self-interest in making this proposal, but you may believe me

21
4

that, behind it, there is also a sincere desire to advance your own. The demonstrations which I have made in Colorado are of such a nature that they preclude the possibility of a failure, and the performances of the machines which I have developed are of such a character as to almost surpass belief. You will know, of course, that I contemplate the establishment of such a communication merely as a first step to further and more important work, namely that of transmitting power, but as the latter will be an undertaking on a much larger and more expensive scale, I am compelled to first demonstrate one feature to get the confidence of capital.

I am obliged to accompany this proposal by a request which you will greatly oblige me by complying with without much delay. I have been so enthused over the results achieved and have worked with such a passion, that I have neglected to make such provisions for money as would have been dictated by prudence, and on my return I find that I may have to make some payments before certain funds, which are due to me, may reach me. Being thus compelled to borrow money, I turn to you to ask whether your Company will not advance me, say \$6000, on the guarantee of my royalty rights for England, or, if preferable, whether they would not buy outright my claims on the royalty for a sum of \$10,000. I would prefer to borrow money and pay the interest, as I am not quite sure

3
4

that I ought to sell my share, which is four ninths of the total amount due to my Company, not knowing exactly whether, in so doing, I might hurt the interests of my associates, Mr. Brown and Mrs. Peck. Needing, however, the money and thinking that my right in your hands would, if anything, enhance the value of their share, since it would give your Company an additional cause to push the business, I have ventured to make this suggestion. At any rate, I hope that you will be able to mail me a check within a day or two, on whatever terms you may prefer. I shall certainly be greatly obliged for the service.

I make no secrecy of needing the money, but as regards the plan of transmitting messages, I would not want it yet to be known until some of my patents, which are allowed, shall have been issued.

Yours sincerely,

51

GEO. WESTINGHOUSE.

PITTSBURGH, PA.

120 Broadway, New York,

September 5th, 1900.



Dear Doctor Tesla:

On my arrival in New York this morning I find your letter of August 30th, for which I thank you most sincerely. I think we are both to be congratulated on the outcome of the suit; you, because the Courts have awarded to you the credit for a great invention; and we, because we are likely to have our rights respected so that we may reap some of the advantages due to the large expenditures we have made in the commercial development of your inventions.

You know I appreciate your sympathetic interest in my affairs.

Believe me,

Most sincerely yours,

Geo. Westinghouse

Dr. N. Tesla,

46 & 48 East Houston St.,

New York.

2/3

New York, March 13th, 1901.

16 & 18 East Houston Str.

6

Mr. Geo. Westinghouse, Jr.,

120 Broadway, New York City.

Dear Mr. Westinghouse:-

In accordance with our conversation to-day I wish to say, that I shall hope to have the pleasure of seeing you in Pittsburgh next Tuesday. It will be best, under the circumstances, to postpone a further step until that time.



With thanks for your courtesy, I remain,

Yours very truly,

W O
GEO. WESTINGHOUSE.
PITTSBURGH, PA.

New York, March 18th, 1901.

Nikola Tesla, Esq.,

46 & 48 East Houston St.,

New York.

DEPT. OF COMMERCE
MAR 19 1901
Dear Mr. Tesla:

I duly received your letter saying that you would be in Pittsburg Tuesday in accordance with our conversation. I find that important business matters will keep me in New York until Tuesday night, and I therefore trust it will be quite convenient for you to be in Pittsburg Wednesday.

I now expect to go by the train leaving Jersey City at 8:44 p.m. tomorrow, and if that train will be a convenient one for you, I should be glad to have you go with me on my car, which, upon inquiry, you will easily find in the station.

If convenient for you to do so, kindly come to Jersey City at about 7:30, so that you may dine with us on the car.

Truly yours,

Geo. Westinghouse

WESTINGHOUSE.

PITTSBURGH, PA.

FACSIMILE COPY

April 6th, 1905.

Mr. W. Ten Eyck Hardenbrook,

No. 238 Fifth Avenue,

New York.

Dear Sir:



I have your letter of April 1st with the artotype souvenir of the visit of Prince Henry of Prussia, and thank you for sending it to me.

I enclose you herewith a check for \$50., the amount of your bill.

From the short inspection I have made, I believe the likenesses to be exceptionally good.

Believe me,

Truly yours,

W. Westinghouse

(Enclosure)

COPY.

Waldorf-Astoria,
New York. Jan. 11, 1906.

George Westinghouse, Esq.,
110 Broadway, New York.

My dear Mr. Westinghouse:

Has anything happened to mar the cordiality of our relations? I would be very sorry not only because of my admiration for you, but for other serious reasons.

The transmission of power without wires will very soon create an industrial revolution and such as the world has never seen before. Who is to be more helpful in this great development, and who will derive from it greater benefits than yourself?

Please be mindful in your contact with others-not of my personal interest, for that is of little consequence-but of this far advanced work now in the delicate stage of a sprint. It is easy to destroy and difficult to succeed.

I ask no favor but I would like to feel that you entertain for me the same high regard which you have always shown.

Yours very truly,



165 Broadway, New York,
November 21, 1908.

Mr. George Westinghouse,
165 Broadway,
New York City.



Dear Mr. Westinghouse:--

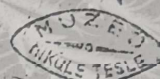
I have read in the papers of this morning with great pleasure of the success of your plan of re-organization.

The strength of a man shows itself in adversity. You have overcome obstacles which seemed insuperable and once more shown that you are one of those who cannot be downed. Please accept my heartiest congratulations.

Yours faithfully,

GEO. WESTINGHOUSE,
PITTSBURGH, PA.

November 24th, 1902.



Dear Mr. Tesla:

Very many thanks for your letter of November 21st. There is very much yet to do before all of my things get settled down.

I thank you sincerely for your hearty congratulations.

Truly yours,

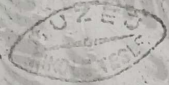
G. Westinghouse

Nikola Tesla, Esq.,

165 Broadway,

New York City.

165 Broadway, New York,
June 4th, 1910.



Mr. W. H. Westinghouse: -

My friend, I have been thinking of you a great deal lately. I have been thinking of the rotten
state of the world, the decay of the walls, the decay of the
the world of today.

Yours sincerely,

W. H. Westinghouse, Esq.,
New York.

Enclosed



365 Broadway, New York,
June 2nd, 1910.

My dear Mr. Jones:

I am glad to hear

from you and hope you are

very well.

Very truly,
John D. Jones

165 Broadway, New York,
August 10th, 1910.



My Dear Mr. Westinghouse:

I suppose you cannot help feeling disappointed at the ingratitude of some who are now heading the great enterprise which your genius has created, but such statements as the enclosed may afford you some consolation.

With expressions of high esteem, be-
lieve me,

Yours very sincerely,

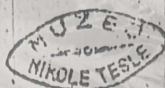
George Westinghouse, Esq.,
165 Broadway, New York.

enclosure.

GEO. WESTINGHOUSE

PITTSBURGH, PA.

August 18, 1910.



Dear Mr. Tesla:

Many thanks for your letter of August 10th with its enclosure from the Evening Mail, which I had already seen. I am quite sure you will live to see a great change in the sentiment of the public in regard to what may prove to be only a temporary reverse.

With thanks to you for your letter, I am,

Very truly yours,

G. Westinghouse

Mr. N. Tesla,

165 Broadway,

New York.

165 Broadway, New York,
August 15th, 1910.



Dear Mr. Washington:

Acknowledging receipt of your kind
letter of the 14th, I sincerely hope that you will
be again in the position you have lately
occupied in the connection with the great
cause of their existence and your unflinching
I believe that a large majority of the
public is entirely in sympathy with you.

Believe me,

Yours faithfully,

George Washington, Esq.,
Pittsburg, Pa.



DUPONT CIRCLE,
WASHINGTON, D.C.

Windsor Hotel
New York Dec 28th

Dear Mr Tesla



Your very considerate
letter touched Mrs

and myself
deeply. I had told my mother
of you and that I was hoping
to have you visit us so she
could see you and now it
can never be. We thank
you sincerely for your sympathetic
words and trust you may
have a happy New Year and
much happiness.
Sincerely yours



DUPONT CIRCLE,
WASHINGTON, D.C.

Windsor Hotel
New York Dec 28th

Dear Mr Tesla



Your very considerate
letter touched me

very sore and deeply. I had told my mother
of you and that I was hoping
to have you visit us so she
could see you and now
can never be. We thank
you sincerely for your sympathetic
words and trust you ^{may} have
a happy New Year and
much happiness.
Sincerely yours

Thorne 9/15

Capitulum

1891

MS 481

SAMUEL CLEMENS
MARK TWAIN

Box 8

CORRESPONDENCE

TESLA - CLEMENS SAMUEL / MARK TWAIN /

Page _____
Date _____
By _____

65

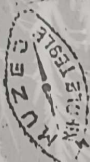
Anderson, Leonard - Mark Twain and Clemens
MS A 981

Samuel Clemens (Mark Twain) (1834-1910)
1834-1910 (1834-1910) New York

8028

THE PLAYERS,
16 GRAMERCY PARK.

March 4/94.



Dear Mr. Tesla:

If I can possibly
manage it I'll be there
by 4 p.m., but I am dreadfully
pushed for time, & you
mustn't depend on me.
In haste

Sincerely Yours
S.L. Clemens

SAMUEL CLEMENS (MARK TWAIN) (DECEASED)
CORRESPONDENCE - 1892 - 1910 (DECEASED)
7228) NEW YORK

THE PLAYERS,
16 GRAMERCY PARK.



March 4/94.

Dear Mr. Tesla:

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manage it I'll be there
by 4 p.m., but I am dreadfully
pushed for time, & you
mustn't depend on me.

In haste

Sincerely Yours
S. L. Clemens

Samuel Clemens (Mark
Twain) - 1892 -
Correspondence

MS 981

Anderson, Island - Arrival and Manuscript collections - Library of Congress



TELEPHON NR 10.074
TELEGRAMM: "HOTEL KRANTZ, WIEN"

HOTEL KRANTZ

WIEN, I. NEUER MARKT 6

Nov. 17/98.



Dear Mr. Tesla -

Have you Austrian & English patents on that destructive terror which you have been inventing? - & if so, would you set a price upon them & commission me to sell them? I know cabinet ministers of both countries - & of Germany, too; likewise William Pitt.

I shall be in Europe a year, yet

here in the hotel the other night when some interested

men were discussing means to persuade the nations to join with the Czar & disarm, I advised them to seek something more sure than disarmament by perishable paper contract - invite the great inventors to contrive something against which fleets & armies would be helpless, & thus make war thenceforth impossible. I did not suspect that you were already attending to that, & getting ready to introduce into the earth permanent peace & disarmament in a practical & mandatory way.

I know you are a very busy man, but will you still time to drop me a line?

Sincerely Yours

Mark Twain



TELEPHON N^o 10.074
TELEGRAMM: „HOTEL KRANTZ, WIEN“

HOTEL KRANTZ

WIEN, I. NEUER MARKT 6

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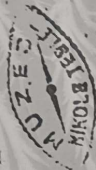
men were discussing means to persuade the nations to join with the Czar & Disarm, I advised them to seek some thing more sure than disarmament by perishable paper contract - invite the great inventors to contrive something against which fleets & armies would be helpless, & thus make war thence forth impossible. I did not suspect that you were already attending to that, & getting ready to introduce into the earth permanent peace & disarmament in a practical & mandatory way.

I know you are a very busy man, but will you steal time to drop me a line?

Sincerely yours
Mark Twain

THE PLAYERS,
16 GRAMERCY PARK

Friday, Windsor, N.Y.



Dear Mr. Tesla:

I am desperately
sorry, but a matter of
unavoidable business
- has intruded itself &
bars me from coming
down to you on afternoon.
I am very sorry.
Do forgive me.

Sincerely Yours
S. J. Clemens

SAMUEL CLEMENS (MARK TWAIN) (1834-1910)
Correspondence - 1892 - 1910

MS A 9.1

THE PLAYERS,
16 GRAMERCY PARK



Friday, Midnight.

Dear Mr. Tesla:

I am desperately
sorry, but a matter of
unavoidable business
has intruded itself &
bars me from coming
down tomorrow afternoon.
I am very very sorry.
Do forgive me.

Sincerely Yours
S. Clemens

MS 981

Samuel Clemens (1880-1910)
Correspondence - 1880

Anderson, Ireland - Archival and Manuscript Collections - Library of Congress

MS 981

Anderson, Elan - Archival and Manuscript collections - Library of Congress - George Washington, J.R. (7228)
Samuel Clemens (Mark Twain) (Dec 7 228) Nina Tish
Correspondence - 1872 - 1910

Box 8
F1 Dec 20

STAIRS

NIKOLA TESLA MUSEUM
BEOGRAD-YUGOSLAVIA

NIKOLA TESLA MUSEUM (MATH & TWIN) (Box 7228) Nikola Tesla
Correspondence - 1872 - 1910

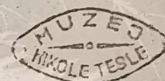
Box 7228
C100120

*Geo. Westinghouse Jr. Pres.
H. M. Dyllisby, Vice Pres.
& General Manager.*

*John Caldwell, Treasurer.
A. J. Rowand, Secretary.
W. L. McCullagh, Auditor.*

The Westinghouse Electric Company

Pittsburgh, Pa. U.S.A. December 13, 1888.



Mr. Nicola Tesla,

Pittsburg, Pa.

Dear Sir:

In accordance with conversation, last night, this Company has decided, to accept the option to purchase your interest in the Tesla Electric Light & Manufacturing Co., and in your contracts with that Company, upon the payment of \$950.00, cash, today, being the balance of the first payment of \$1000.00, - \$50.00 having already been paid you, - and the balance, \$4000.00, to be paid in cash, Feb. 1, 1889, together with two hundred shares of the capital stock of The Westinghouse Electric Company.

Yours truly,

The Westinghouse Electric Company,

H. M. Dyllisby
Vice president & General Manager